

Tradition and innovation – 167 years of KERN.

fast

- 24 hours delivery service – order today, on its way tomorrow
- Sales & service hotline from 8:00 am to 6:00 pm

competent

- DKD accreditation (DIN EN ISO/IEC 17025)
- QM system (DIN EN ISO 9001:2000)
- Initial verification by the manufacturer (90/384/EWG)
- Medical (DIN EN ISO 13485 & 93/42/EWG)

reliable

- 3 years warranty for balances over € 400,-
- Precision in weighing technology for the last 167 years

diverse

- One-stop shopping: from pocket balances through to floor scales – everything from one supplier
- Quick as a flash, find the product you want with the „Balance Quick-Finder“ at www.kern-sohn.com



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KERN



Balances & Test Service ... for laboratory, industry and food

Balances & Test Service

for laboratory, industry and food



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KERN – Professional measuring.

























2011

2011

GB

GB

KERN Pictograms

-  **Internal adjusting (CAL):** Quick setting of the balance's accuracy with internal adjusting weight (motordriven).
-  **Adjusting program (CAL):** For quick setting of the balance's accuracy. External adjusting weight required.
-  **Piece counting:** Reference quantities selectable. Display can be switched from piece to weight.
-  **Data interface:** The type of interface is shown by the pictogram. See the glossary for further details.
-  **GLP/ISO record keeping** of weighing data with date, time and identification-no. Only with printers from KERN.
-  **Net-total weighing:** weight of tare cup and weight of components memorized in two separate stores.
-  **Percentage determination:** Displays the deviation from the reference weight (100%) in % instead of grams.
-  **Weighing units:** Can be switched to e.g. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details.
-  **Weighing with tolerance range:** Upper and lower limiting can be programmed individually, e.g. dosing/sorting.
-  **Spray and dust protection IPxx**
The type of protection is shown by the pictogram. For details see the glossary.
-  **Animal weighing program:**
Strong vibrations are filtered out to determine a stable weighing result.
-  **Stainless steel:** the balance is protected against corrosion.
-  **Suspended weighing:** load support with hook on the underside of the balance.
-  **Battery operation:** The battery type is specified for each device.
-  **Rechargeable battery pack:** rechargeable set.
-  **Mains adapter:** 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.
-  **Power supply:** integrated in balance. 230V/50Hz in Germany. On request GB, AUS or USA version.
-  **Tare:** put back displayed value to "0" during weighing process, e.g. to add or remove weighing material from a container.
-  **Package shipment** via courier.  **Pallet shipment** via freight forwarder.
-  **Warranty:** The warranty period is shown in the pictogram.
-  **Verification possible.** The time required for verification is specified in the pictogram.
-  **DKD calibration possible.** The time required for DKD calibration is specified in the pictogram.
-  **[DMS]** For details on weighing technologies, see the glossary.



Albert Sauter, Martin Sauter

Dear sales partner:
KERN weighing technology continues to impress – 2011 will be bigger and more innovative.

- Our focal points for 2011 are:
- Laboratory balances for the next generation
 - High-end moisture analyzers with Single Cell technology
 - Industrial scales with innovative touchscreen operation
 - Counting balances and counting systems
 - Particularly cost-effective test weights
 - DKD calibration for balances, test weights, force sensors, volumes

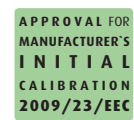
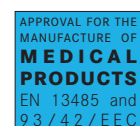
Our subsidiary SAUTER GmbH, Balingen, offers force measuring devices, hardness, thickness and layer thickness measuring devices, and associated testing services. See catalogue below. Orders can be placed via KERN's web shop.

More than 167 years of experience in precision scales ...

... and our close relationship with dealers is just as long. Working with us is easy and speed is one of our key features. Our commitment to satisfy our customers never stops. Perhaps this is one of the reasons why our roots can be traced so far back in history.

Martin & Albert Sauter, Management
[Balingen, January 2011]

High quality and reliable services for our customers. KERN – Professional measuring.



KERN - measuring technology and testing services from a single source



KERN main balances catalogue

Provides a complete overview of the KERN line of balances, test weights, and services.



KERN medical products catalogue

Complete line of medical scales, from infant scales to professional patient scales, seated scales and adiposity scales, as well as innovative manual force scales, chemist's scales, and veterinary scales.



KERN DKD calibration service brochure

Detailed information on topics pertaining to the calibration of balances, test weights, and force measuring devices.



SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness, and hardness measuring systems, as well as stroboscopes.



KERN branch prospectuses

Compact overview of the balance customers in an industry – just the balances your customers need!

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OUR TIP:



Our tip – give us a visit sometime in the Museum of scale and weight...



How a scale learns to weigh! Come and experience Kern history in the Zollenschloss at Balingen ... www.balingen.de → Culture

NEWS 2011 NEWS

Pocket carat balance TAB 20-3

High-precision pocket carat balance for jewellers, travelling salesmen ... [see page 10](#)



TAB only **€ 70,-**

Precision balance EMS

Entry level laboratory balance with large weighing plate ... [see page 15](#)



EMS from **€ 65,-**

Analytical balance ALJ-A

Precision and price down to a point - now with internal adjustment ... [see page 36](#)



ALJ from **€ 1.040,-**

Moisture analyser MLS 150-2A

Moisture analyser with 49 memory slots - now in a cost-effective 0.01 g variant as well ... [see page 40](#)



MLS only **€ 1.150,-**

Bench scale FKT

Touch-screen industrial scale with enormous range of features - now also in a cost-effective low-res variant ... [see page 54](#)



FKT from **€ 550,-**

Counting scale FTC

Quality counting balance with EC-Type Approval [M], counting resolution of 150.000 pts ... [see page 78](#)



FTC from **€ 820,-**

Platform scale IKT

The future begins here - touch-screen platform scale with enormous range of functions ... [see page 92](#)



IKT from **€ 780,-**

Statistics printer YKS-01

Cost-effective thermal printer for the most common statistical reports ... [see page 125](#)



YKS only **€ 390,-**

Moisture analyser DBS 60-3

High-quality moisture analyzer with enormous range of functions



COMING SOON...

All prices listed here are without legal VAT.

PRICE REDUCTION

Already seen it??

In 2011, we're reducing prices on many of our models again. Current models at unbelievably low prices!

ONLY WHILE STOCKS LAST!!!



only
€ 990,-

Precision balance PBJ

Multifunctional laboratory balance with single-cell weighing system and EC-Type Approval [M]

→ Further details, see page 32

Model KERN	Weighing range [Max]	Read out [d]	Price € OLD	Price € NEW
PBJ 420-3M	420 g	0,001 g	1050,-	→ 990,-



only
€ 2490,-

Stainless steel platform scale FEJ

High resolution Stainless steel scale with EC-Type Approval (M) and IP65

→ Further details, see page 65

Model KERN	Weighing range [Max]	Read out [d]	Price € OLD	Price € NEW
FEJ 62K0.1IPM	62 kg	0,1 g	2720,-	→ 2490,-



only
€ 99,-

Bench scale FCB

Bench scale with second display on the rear of the balance

→ Further details, see page 48

Model KERN	Weighing range [Max]	Read out [d]	Price € OLD	Price € NEW
FCB 24K10	24 kg	10 g	130,-	→ 99,-



from
€ 190,-

Counting scale CDE

Simple counting balance for heavy loads - now with IP 65 display device and counting resolution of 30,000 pt

→ Further details, see page 75

Model KERN	Weighing range [Max]	Read out [d]	Price € OLD	Price € NEW
CDE ...	complete series		from 310,-	→ from 190,-



from
€ 199,-

Bench scale FKB-A

Bench scale up to 65 kg with large weighing plate

→ Further details, see page 51

Model KERN	Weighing range [Max]	Read out [d]	Price € OLD	Price € NEW
FKB 16K0.2A	16 kg	0,2 g	230,-	→ 150,-
FKB 30K2A	30 kg	2 g	210,-	→ 199,-
FKB 60K2A	60 kg	2 g	255,-	→ 225,-



from € 330,-

Counting system CDEE-N

Counting system with simple operation with a resolution of 750,000 points

→ Further details, see page 79

Model Counting System KERN	Quantity balance KERN	+	Reference balance KERN	=	Price € OLD	Price € NEW
CDEE ...	complete series				from 440,-	→ from 330,-



only
€ 250,-

Stainless steel bench scale FOB

Verifiable stainless steel balance with special protection against humidity with EC-Type Approval [M]

→ Further details, see page 59

Model KERN	Weighing range [Max]	Read out [d]	Price € OLD	Price € NEW
FOB 6K2LM	6 kg	2 g	280,-	→ 250,-



only € 69,-

Platform scale EOL

All-round platform scales with the best price performance ratio

→ Further details, see page 84

Model KERN	Weighing range [Max]	Read out [d]	Price € OLD	Price € NEW
EOL ...	complete series		80,-	→ 69,-



only
€ 290,-

Stainless steel platform scale NDE

Stainless steel platform scale with protection against dust and water splashes IP65

→ Further details, see page 62

Model KERN	Weighing range [Max]	Read out [d]	Price € OLD	Price € NEW
NDE 3K1IP	3 kg	1 g	370,-	→ 290,-
NDE 6K2IP	6 kg	2 g	370,-	→ 290,-
NDE 15K5IP	15 kg	5 g	370,-	→ 290,-
NDE 30K10IP	30 kg	10 g	370,-	→ 290,-
NDE 60K20IP	60 kg	20 g	370,-	→ 290,-
NDE 150K50IP	150 kg	50 g	370,-	→ 290,-



only
€ 199,-

Platform scale EOB-M

Affordable parcel scale, with EC-Type Approval [M]

→ Further details, see page 89

Model KERN	Weighing range [Max]	Read out [d]	Price € OLD	Price € NEW
EOB 6K2M	6 kg	2 g	240,-	→ 199,-

Ordering:

Order hotline

+49-(0)7433-9933-0



Service hotline

+49-(0)7433-9933-199

DKD hotline

+49-(0)7433-9933-173

Online-Shop

www.kern-sohn.com



E-mail order

info@kern-sohn.com



Fax Order

+49-(0)7433-9933-149



Consulting:

Our team of consultants will assist you

from Monday to Friday
from 8:00 am to 6:00 pm



www.kern-sohn.com

For product specification sheets,
user manuals, useful information,
technical glossary etc



Your advantages:

Quick Delivery

Items in stock are sent the same day if
orders are placed before 1:00 pm (valid
for parcel service delivery within the EC).



Price performance ratio

KERN scales are always an inexpensive
alternative. They are durable, uncom-
plicated and easy to place into operation.



Direct dispatch

of ordered goods to your customer is
available, invoice will be issued to you
(third party business).



3 years warranty

Items under € 400,-: 2 years



You have no storage costs – we maintain the storage.



Sale or return

within 14 days of purchase



Do you have questions about our products?

Our customer consultants will be pleased to assist you:



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1 Pocket balances

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Precision in pocket format:

Pocket balances are the ideal helper whenever mobility and high precision are required. Since they have fewer keys, operation is simple and fast. Different weight units stored in the pocket balance, such as g, oz, ct, gn, etc., make them universally usable. An integrated calculator lets you use the weight measured immediately in calculations, e.g. a price, unit count, average values and many more. Compact in size and well protected with a flap or protective cover, which can be used as a convenient taring container, the pocket balance is always a useful tool for mobile weighing.

- In production, for inspection of production weights; during picking of small parts
- In quality control for quick testing of small parts like plastic parts from injection moulding machines, milled parts, screws, etc.
- In quality control for quick testing of small parts like plastic parts from injection moulding machines, milled parts, screws, etc.

- For mobile weighing, in on-site sampling, for fast analysis anywhere there's no power outlet.
- For hobbies and sports, for example for the loading of black powder, to weigh parts from construction sets, etc.
- In commerce, for the fast determination of the weights of coins, jewellery, precious stones, etc.
- In veterinary medicine for the weighing of small animals, the mixing of feed, etc.
- In the food area for the preparation of spice or tea mixes, for the weighing of food for dieting.

Of course, all KERN pocket balances can also be calibrated and delivered with a DKD calibration certificate (optional). This ensures the high level of accuracy of your balance.

Quick-Finder Pocket balances

◆ = Carat balances ■ = Standard □ = Option

Read-out	Weighing range	Model	Price €	Page	ready for shipping	M	CAL INT	CAL EXT	PCS	RS 232	INOX	IP	ACCU	BATT
d	Max	KERN	excl. VAT ex works											
0,001 g	20 g	TAB 20-3 ◆	70,-	10	1			■						■
0,01 ct	50 ct	CM 50-C2N ◆	76,-	10	1			■						■
0,01 g	60 g	CM 60-2N	65,-	9	1			■						■
0,1 g	150 g	TEE 150-1	27,-	8	1			■						■
0,1 g	150 g	CM 150-1N	32,-	9	1			■						■
0,1 g	200 g	TCB 200-1	40,-	8	1			■						■
0,1 g	200 g	TCE 200-1	32,-	8	1			■						■
0,1 g	200 g	TEB 200-1	38,-	9	1			■						■
0,1 g	320 g	CM 320-1N	44,-	9	1			■						■
0,1 gn	500 gn	CM 500-1N	85,-	9	1			■						■
1 g	1000 g	CM 1K-1N	36,-	9	1			■						■

Designer model

01



Features

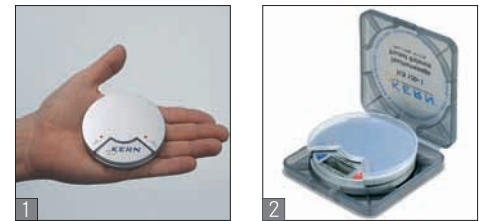
- Simple and convenient 2-key operation
- Cover made of shock proof plastic as protection against pressure and dust. Can also be used as a tare cup
- Note: Can be printed with your logo, from 100 pcs. Please ask for details
- Ready for use: Batteries included, 2x 1.5V AAA

Technical data

- Backlit LCD, digit height 9 mm
- Overall dimensions WxDxH 67x100x22 mm
- Net weight approx. 0,1 kg

KERN TEE

This is where the fun starts with pocket format weighing



Features

- Simple and convenient 2-key operation
- 1 Small and handy
- 2 Transport box and weighing pan included
- Ready for use: Batteries included, 2 x LR44. AUTO-OFF function to preserve the battery, can be switched off

KERN TCE

KERN TCB

TCB:

- Revolving weighing plate (as overload protection)
- Individual logo printing on request

TCE:

- Non-revolving weighing plate

Technical data

- LCD display, digit height 9 mm
- Overall dimensions ØxH 80x14 mm
- Net weight approx. 0,05 kg

STANDARD				STANDARD		OPTION	
CAL EXT	BATT	TARE	UNIT	1 DAY	2 YEARS GUARANTY	DKD	+3 DAYS

Model	Weighing range [Max] g	Readout [d] g	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
				DKD KERN	€
KERN TEE 150-1	150	0,1	27,-	963-127	65,-
TCB 200-1	200	0,1	40,-	963-127	65,-
TCE 200-1	200	0,1	32,-	963-127	65,-

Pocket balances KERN TEB · CM · CM-GN

Small, practical and protected in a hard case cover



KERN TEB

Features

- Hard case cover as protection against pressure and dust
- Ready for use: Batteries included, 2x 1.5V AAA. AUTO-OFF function to preserve the battery, can be switched off

Technical data

- LCD display, digit height 11 mm
- Overall dimensions WxDxH 85x130x25 mm
- Dimensions of weighing plate WxDxH 70x80 mm
- Net weight approx. 0,18 kg

Pocket balance with grain display - ideal for hunters and riflemen



KERN CM

KERN CM-GN



Features

CM:

- Hard case cover as protection against pressure and dust. With integrated pocket calculator
- Ready for use: Batteries included, 2x 1.5V AAA

CM-GN:

- Draft shield against air movements standard
- Weighing pan
- included Hard case cover as protection against pressure and dust
- Ready for use: Batteries included, 2x 1.5V AAA
- Can be switched over from gn to g at the touch of a key

Technical data

- LCD display, digit height 12 mm
- Overall dimensions WxDxH 85x130x25 mm

CM:

- Net weight approx. 0,18 kg
- Dimensions of weighing plate WxD 70x80 mm

CM-GN:

- Net weight approx. 0,2 kg
- Dimensions of weighing plate WxD 50x40 mm

STANDARD		STANDARD		OPTION
CAL EXT	UNIT	BATT	TARE	2 YEARS GUARANTY
				DKD +3 DAYS

Model	Weighing range		Readout		Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
	[Max]	g	[d]	g		DKD KERN	€
KERN TEB 200-1	200		0,1		38,-	963-127	65,-
CM 60-2N	60		0,01		65,-	963-127	65,-
CM 150-1N	150		0,1		32,-	963-127	65,-
CM 320-1N	320		0,1		44,-	963-127	65,-
CM 1K1N	1000		1		36,-	963-127	65,-
CM 500-GN1	g	gn	g	gn	85,-	963-127	65,-
	32	500	0,01	0,1			

Pocket balances TAB · CM-C

High-precision pocket carat balance for jewellers and travelling salesmen

01



KERN TAB

Features

- Simple and convenient 4-key operation
- Can be switched over from g to ct, gn at the touch of a key
- Hard case cover as protection against pressure and dust
- Adjusting weight and weighing pan included
- Ready for use: Batteries included, 4x 1.5V AAA, operating time approx. 150 h

Technical data

- Backlit LCD, digit height 9 mm
- Dimensions of weighing plate (plastic): 36x42 mm
- Overall dimensions WxDxH 95x133x33 mm
- Permissible ambient temperature 10°C / 30°C
- Net weight approx. 0,2 kg

Compact pocket balance with carat display - ideal for jewellers



KERN CM-C



Features

- Can be switched over from ct to g at the touch of a key
- Hard case cover as protection against pressure and dust
- Ready for use: Batteries included, 2x 1.5V AAA. AUTO-OFF function to preserve the battery, can be switched off
- Adjusting weight included
- **1** Draft shield against air movements standard
- **2** Weighing pan included

Technical data

- LCD display, digit height 9 mm
- Dimensions of weighing plate (plastic) WxD 50x40 mm
- Overall dimensions WxDxH 85x130x25 mm
- Net weight approx. 0,2 kg

STANDARD

- CAL EXT
- BATT
- TARE
- UNIT

STANDARD

- 1 DAY
- 2 YEARS GUARANTY

OPTION

- DKD +3 DAYS

Modell	Weighing range [Max]		Readout [d]		Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
	g	ct	g	ct		DKD KERN	€
KERN TAB 20-3	20	100	0,001	0,005	70,-	963-127	65,-
KERN CM 50-C2N	10	50	0,002	0,01	76,-	963-127	65,-

2 Precision balances

KERN Model	Page
EMB Entry level laboratory balance with tremendous weighing performance	14
EMS Entry level model in the low cost range with large weighing plate	15
PFB Low-cost model based on a concept of easy use	16
440 The bestseller in basic laboratory balances	17
PCB The economical solution for the bargain hunter	18/19
PLE-N Low-cost precision balance with wide range of functions	20
KB-N Convenient model at a basic price, KB-M also with EC-Type Approval [M]	21
572 All-rounder e.g. as laboratory, counting or checking balance, 573 also with EC-Type Approval [M]	22
EWB Verifiable entry level model in the upper laboratory class with EC-Type Approval [M]	23
EW Verifiable gold & laboratory balance with EC-Type Approval [M]	24
PLJ-N Excellent performance & price, also with EC-Type Approval [M]	25
PLS Excellent performance, excellent price – PLJ now also with internal adjustment	26/27
EW-N Top of the range cost-effectiveness, EG-N with EC-Type Approval [M]	28/29
PES Robust laboratory and industrial precision balance, PEJ with EC-Type Approval [M]	30
Accessories laboratory and analytical balances	31
PBS Multifunctional laboratory balance with single-cell PBJ weighing system and EC-Type Approval [M]	32/33



Quick-Finder Precision balances











■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	DAYS ready for shipping	M	CAL INT	CAL EXT	PCS	RS 232	INOX	IP	ACCU	BATT	For an explanation of the symbols, see the flap of the envelope										
															0,001 g	60 g	440-21A	290,-	17	1			■	■	■
0,001 g	100 g	EMB 100-3	150,-	14	1			■						■											
0,001 g	100 g	PCB 100-3	210,-	18	1			■	■	■			□	□											
0,001 g	120 g	PFB 120-3	220,-	16	1			■	■	■															
0,001 g	121 g	KB 120-3N	250,-	21	1			■	■	■			□												
0,001 g	150 g	EW 150-3M	600,-	24	1	■		■		□			□												
0,001 g	200 g	EMB 200-3	170,-	14	1			■						■											
0,001 g	200 g	PFB 200-3	245,-	16	1			■	■	■															
0,001 g	201 g	KB 200-3N	270,-	21	1			■	■	■			□												
0,001 g	220 g	PES 220-3M	690,-	30	1	■		■	■	■			□												
0,001 g	220 g	EW 220-3NM	650,-	28	1	■		■	■	■			□												
0,001 g	220 g	EG 220-3NM	770,-	28	1	■	■		■	■			□												
0,001 g	241 g	KB 240-3N	280,-	21	1			■	■	■			□												
0,001 g	241 g	572-30	390,-	22	1			■	■	■			□												
0,001 g	250 g	PCB 250-3	240,-	18	1			■	■	■			□	□											
0,001 g	301 g	572-31	400,-	22	1			■	■	■			□												
0,001 g	310 g	PLE 310-3N	320,-	20	1			■	■	■			□	■											
0,001 g	310 g	PLJ 310-3F	530,-	26	1		■		■	■															
0,001 g	310 g	PLS 310-3F	430,-	26	1			■	■	■															
0,001 g	350 g	PCB 350-3	270,-	18	1			■	■	■			□	□											

Quick-Finder Precision balances











■ = Standard □ = Option

02

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	 DAYS versand- bereit										For an explanation of the symbols, see the flap of the envelope									
0,001 g	360 g	PLJ 360-3NM	750,-	25	1	■	■		■	■														
0,001 g	361 g	KB 360-3N	300,-	21	1			■	■	■			□											
0,001 g	420 g	PES 420-3M	790,-	30	1	■		■	■	■			□											
0,001 g	420 g	PEJ 420-3M	850,-	30	1	■	■		■	■			□											
0,001 g	420 g	EW 420-3NM	730,-	28	1	■		■	■	■			□											
0,001 g	420 g	EG 420-3NM	860,-	28	1	■	■		■	■			□											
0,001 g	420 g	PBS 420-3M	980,-	32	1	■		■	■	■														
0,001 g	420 g	PBJ 420-3M	990,-	32	1	■	■		■	■														
0,001 g	421 g	572-32	430,-	22	1			■	■	■			□											
0,001 g	510 g	PLS 510-3A	720,-	28	1			■	■	■														
0,001 g	600 g	PLJ 600-3NM	810,-	25	1	■	■		■	■														
0,001 g	620 g	PES 620-3M	1230,-	30	1			■	■	■			□											
0,001 g	620 g	PEJ 620-3M	1430,-	30	1	■	■		■	■			□											
0,001 g	620 g	EW 620-3NM	820,-	29	1			■	■	■			□											
0,001 g	620 g	EG 620-3NM	970,-	28	1	■	■		■	■			□											
0,001 g	620 g	PBS 620-3M	1170,-	32	1			■	■	■														
0,001 g	620 g	PBJ 620-3M	1370,-	32	1	■	■		■	■														
0,001 g	720 g	PLJ 720-3A	790,-	26	1		■		■	■														
0,001 g	720 g	PLS 720-3A	730,-	26	1			■	■	■														
0,001 g	750 g	PLJ 750-3N	990,-	25	1		■		■	■				■										
0,001 g	1200 g	PLS 1200-3A	790,-	11	1			■	■	■														
0,001 g / 0,01 g	720 g / 1200 g	PLS 1200-3DA	730,-	26	1			■	■	■														
0,001 g / 0,01 g	720 g / 1200 g	PLJ 1200-3DA	790,-	26	1		■		■	■														
0,01 g	200 g	EMB 200-2	100,-	14	1			■						■										
0,01 g	200 g	PCB 200-2	170,-	18	1			■	■	■			□	□										
0,01 g	200 g	440-33N	240,-	17	1			■	■	■			□	□										
0,01 g	220 g	EWB 220-2M	460,-	23	1	■		■	■	■			□											
0,01 g	400 g	440-35N	270,-	17	1			■	■	■			□	□										
0,01 g	600 g	EMB 600-2	125,-	14	1			■						■										
0,01 g	600 g	440-35A	300,-	17	1			■	■	■			□	□										
0,01 g	600 g	EW 600-2M	570,-	24	1	■		■		□			□											
0,01 g	600 g	PLJ 600-2GM	590,-	25	1	■	■		■	■			■											
0,01 g	620 g	EWB 620-2M	490,-	23	1	■		■	■	■			□											
0,01 g	650 g	KB 650-2NM	340,-	21	1	■		■	■	■			□											
0,01 g	650 g	573-34NM	460,-	22	1	■		■	■	■														
0,01 g	820 g	EW 820-2NM	560,-	28	1			■	■	■			□											
0,01 g	1000 g	EMB 1000-2	150,-	14	1			■						■										
0,01 g	1000 g	PCB 1000-2	195,-	18	1			■	■	■			□	□										
0,01 g	1200 g	PFB 1200-2	190,-	16	1			■	■	■			■											
0,01 g	1210 g	KB 1200-2N	250,-	21	1			■	■	■			□											
0,01 g	1500 g	EW 1500-2M	620,-	24	1	■		■		□			□											
0,01 g	1610 g	572-33	370,-	22	1			■	■	■			□											
0,01 g	2000 g	EMB 2000-2	170,-	14	1			■						■										
0,01 g	2000 g	PFB 2000-2	235,-	16	1			■	■	■			■											
0,01 g	2000 g	KB 2000-2NM	380,-	21	1	■		■	■	■			□											
0,01 g	2000 g	573-36NM	490,-	22	1	■		■	■	■														
0,01 g	2010 g	KB 2000-2N	270,-	21	1			■	■	■			□											
0,01 g	2200 g	PES 2200-2M	890,-	30	1	■		■	■	■			□											
0,01 g	2200 g	PEJ 2200-2M	1100,-	30	1	■	■		■	■			□											
0,01 g	2200 g	EW 2200-2NM	690,-	29	1	■		■	■	■			□											
0,01 g	2200 g	EG 2200-2NM	820,-	29	1	■	■		■	■			□											
0,01 g	2410 g	KB 2400-2N	280,-	21	1			■	■	■			□											
0,01 g	2410 g	572-35	380,-	22	1			■	■	■			□											
0,01 g	2500 g	PCB 2500-2	240,-	18	1			■	■	■			□											
0,01 g	3000 g	EW 3000-2M	720,-	24	1	■		■		□			□											
0,01 g	3010 g	572-37	390,-	22	1			■	■	■			□											
0,01 g	3100 g	PLE 3100-2N	320,-	20	1			■	■	■			■											
0,01 g	3100 g	PLJ 3100-2F	530,-	26	1		■		■	■														
0,01 g	3100 g	PLS 3100-2F	430,-	26	1			■	■	■														
0,01 g	3500 g	PCB 3500-2	260,-	18	1			■	■	■			□	□										
0,01 g	3500 g	PLJ 3500-2NM	750,-	25	1	■	■		■	■														
0,01 g	3610 g	KB 3600-2N	300,-	21	1			■	■	■			□											

Quick-Finder Precision balances

■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	 DAYS versand- bereit									
0,01 g	4200 g	PLS 4200-2A	690,-	26	1			■	■	■				
0,01 g	4200 g	PES 4200-2M	1050,-	30	1	■		■	■	■			□	
0,01 g	4200 g	PEJ 4200-2M	1240,-	30	1	■	■		■	■			□	
0,01 g	4200 g	EW 4200-2NM	780,-	29	1	■		■	■	■			□	
0,01 g	4200 g	EG 4200-2NM	910,-	29	1	■	■		■	■			□	
0,01 g	4200 g	PBS 4200-2M	1000,-	33	1	■		■	■	■				
0,01 g	4200 g	PBJ 4200-2M	1200,-	33	1	■	■		■	■				
0,01 g	4200 g	572-39	440,-	22	1			■	■	■			□	□
0,01 g	6200 g	PLJ 6200-2A	830,-	26	1		■		■	■				
0,01 g	6200 g	PLS 6200-2A	730,-	26	1			■	■	■				
0,01 g	6200 g	PES 6200-2M	1260,-	30	1			■	■	■			□	
0,01 g	6200 g	EW 6200-2NM	870,-	29	1			■	■	■			□	
0,01 g	6200 g	PBS 6200-2M	1210,-	32	1			■	■	■				
0,01 g	6200 g	PBJ 6200-2M	1410,-	33	1	■	■		■	■				
0,01 g /0,1 g	4200 g /6200 g	PLJ 6200-2DA	790,-	26	1		■		■	■				
0,01 g /0,1 g	4200 g /6200 g	PLS 6200-2DA	690,-	26	1			■	■	■				
0,05 g	6000 g	PFB 6K0.05	210,-	16	1			■	■	■			■	
0,05 g	10,1 kg	KB 10K0.05N	270,-	21	1			■	■	■			□	
0,05 g	12,1 kg	572-45	390,-	22	1			■	■	■			□	
0,05 g	20,1 kg	572-55	430,-	22	1			■	■	■			□	
0,1 g	400 g	440-43N	150,-	17	1			■	■	■			□	□
0,1 g	500 g	EMB 500-1	44,-	14	1			■						■
0,1 g	1 kg	PCB 1000-1	135,-	18	1			■	■	■			□	□
0,1 g	1 kg	440-45N	200,-	17	1			■	■	■			□	□
0,1 g	1,2 kg	EMB 1200-1	65,-	14	1			■						■
0,1 g	1,2 kg	EWB 1200-1M	460,-	23	1	■		■	■	■			□	
0,1 g	2 kg	PCB 2000-1	160,-	18	1			■	■	■			□	□
0,1 g	2 kg	440-47N	220,-	17	1			■	■	■			□	□
0,1 g	4 kg	440-49N	270,-	17	1			■	■	■			□	□
0,1 g	6 kg	EMB 6000-1	125,-	14	1			■						■
0,1 g	6 kg	PCB 6000-1	180,-	18	1			■	■	■			□	□
0,1 g	6 kg	PLJ 6000-1GM	590,-	25	1	■	■		■	■			■	
0,1 g	6 kg	PFB 6000-1	170,-	16	1			■	■	■			■	
0,1 g	6 kg	440-49A	300,-	17	1			■	■	■			□	□
0,1 g	6 kg	EMS 6K0.1	145,-	15	1			■	■					■
0,1 g	6 kg	EW 6000-1M	570,-	24	1	■		■		□			□	
0,1 g	6,5 kg	KB 6500-1NM	340,-	21	1	■		■	■	■			□	
0,1 g	6,5 kg	573-46NM	460,-	22	1	■		■	■	■				
0,1 g	8,2 kg	PES 8200-1M	1150,-	30	1	■		■	■	■			□	
0,1 g	8,2 kg	PBS 8200-1M	1020,-	32	1	■		■	■	■				
0,1 g	8,2 kg	PBJ 8200-1M	1220,-	32	1	■	■		■	■				
0,1 g	10 kg	PCB 10000-1	190,-	18	1			■	■	■			□	□
0,1 g	10,1 kg	KB 10000-1N	240,-	21	1			■	■	■			□	
0,1 g	10,1 kg	KB 10000-1NM	380,-	21	1	■		■	■	■			□	
0,1 g	10,1 kg	572-43	360,-	22	1		■		■	■			□	
0,1 g	12 kg	EMS 12K0.1	165,-	15	1			■	■					■
0,1 g	12 kg	EW 12000-1NM	670,-	28	1	■		■	■	■			□	
0,1 g	15 kg	PES 15000-1M	1250,-	30	1	■		■	■	■			□	
0,1 g	16,1 kg	572-49	370,-	22	1			■	■	■			□	
0,1 g	20 kg	573-56NM	490,-	22	1	■		■	■	■				
0,1 g	20 kg	PLS 20000-1F	440,-	26	1			■	■	■				
0,1 g	24,1 kg	572-57	390,-	22	1			■	■	■			□	
0,1 g	31 kg	PES 31000-1M	1990,-	30	1	■		■	■	■			□	
1 g	2,2 kg	EMB 2200-0	40,-	14	1			■						■
1 g	4 kg	440-51N	130,-	17	1			■	■	■			□	□
1 g	5,2 kg	EMB 5.2K1	50,-	14	1			■						■
1 g	6 kg	EMS 6K1	65,-	15	1			■	■					■
1 g	6 kg	PCB 6000-0	100,-	18	1			■	■	■			□	□
1 g	6 kg	440-53N	150,-	17	1			■	■	■			□	□
1 g	12 kg	EMS 12K1	95,-	15	1			■	■					■
5 g	5,2 kg	EMB 5.2K5	40,-	14	1			■						■

02



Entry level laboratory balance with tremendous weighing performance

Features

- Ready for use: Batteries included. AUTO-OFF function to preserve the batteries, can be switched off
- Tare function facilitates formulation work
- Particularly flat design
- Secure and non-slip positioning with rubber feet

Options

- **1** Stainless steel-weighing plate (only for models with weighing plate sizes **B**), **KERN EMB-A02, € 25,-**
- Mains adapter (external) not included, can be reordered, **KERN 440-902, € 15,-**

Technical data

- Large LCD display, digit height 15 mm
- Dimensions of weighing plate (plastic):
 - A** ø 82 mm
 - B** ø 105 mm
 - C** ø 150 mm, see larger picture
- Overall dimensions WxDxH 170x240x39 mm
- Net weight approx. 0,5 kg
- Permissible ambient temperature 5°C / 35°C

STANDARD



OPTION



STANDARD



OPTION



Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
KERN								
EMB 100-3	100	0,001	0,001	± 0,003	A	150,-	963-127	65,-
EMB 200-3	200	0,001	0,001	± 0,003	A	170,-	963-127	65,-
EMB 200-2	200	0,01	0,01	± 0,02	B	100,-	963-127	65,-
EMB 600-2	600	0,01	0,01	± 0,03	B	125,-	963-127	65,-
EMB 1000-2	1000	0,01	0,01	± 0,03	C	150,-	963-127	65,-
EMB 2000-2	2000	0,01	0,01	± 0,03	C	170,-	963-127	65,-
EMB 500-1	500	0,1	0,1	± 0,2	C	44,-	963-127	65,-
EMB 1200-1	1200	0,1	0,1	± 0,3	C	65,-	963-127	65,-
EMB 2200-0	2200	1	1	± 2	C	40,-	963-127	65,-
EMB 5.2K1	5200	1	1	± 3	C	50,-	963-128	80,-
EMB 5.2K5	5200	5	5	± 10	C	40,-	963-128	80,-
EMB 6000-1	6000	0,1	0,1	± 0,3	C	125,-	963-128	80,-

Price reduction



Entry level model with large weighing plate in the low-cost range

Features

- Large, shock proof plastic weighing plate
- Particularly flat design
- Ergonomic display device with large keys and a high-contrast LCD display
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels

- Percentage determination: makes it possible to store a given weight value (100%) and to determine deviations from this target value
- Secure and non-slip positioning with rubber feet

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions of weighing plate (plastic): 160x160 mm
- Overall dimensions WxDxH 200x280x63 mm
- Optional battery operation, 9V Block, not included
- Mains adapter (external) included
- Net weight approx. 1,4 kg
- Permissible ambient temperature
- 5°C / 35°C

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
EMS 6K0.1	6000	0,1	0,1	± 0,3	0,2	145,-	963-128	80,-
EMS 12K0.1	12000	0,1	0,1	± 0,3	0,2	165,-	963-128	80,-
EMS 6K1	6000	1	1	± 3	2	65,-	963-128	80,-
EMS 12K1	12000	1	1	± 3	2	95,-	963-128	80,-



Low-cost model based on a concept of easy use

Features

- Concept of easy use: All primary functions have their own key on the keypad
- Compact size, practical for small spaces
- Capacity display: A bar lights up to show how much of the weighing range is still available
- Level indicator and foot screws to level the balance precisely, fitted as standard, to give the most accurate weighing results
- Only for models with weighing plate sizes **A**, **B**: Draft shield standard. Removable metal cover with pipette opening. Weighing space WxDxH 158x143x64 mm

Options

- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- Statistics printer, **KERN YKT-01, € 820,-**
- Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD, digit height 15 mm
- Dimensions of weighing plate (stainless steel):
 - A** ø 80 mm
 - B** ø 120 mm
 - C** 155x145 mm, see larger picture
- Overall dimensions (without draft shield) WxDxH 200x257x87 mm
- Net weight approx. 2 kg
- Permissible ambient temperature 5°C / 35°C

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option	
								DKD Calibr. KERN	Certificate €
PFB 120-3	120	0,001	0,001	± 0,003	0,002	A	220,-	963-127	65,-
PFB 200-3	200	0,001	0,001	± 0,003	0,002	A	245,-	963-127	65,-
PFB 1200-2	1200	0,01	0,01	± 0,03	0,02	B	190,-	963-127	65,-
PFB 2000-2	2000	0,01	0,01	± 0,03	0,02	B	235,-	963-127	65,-
PFB 6K0.05	6000	0,05	0,05	± 0,15	0,2	C	210,-	963-128	80,-
PFB 6000-1	6000	0,1	0,1	± 0,3	0,2	C	170,-	963-128	80,-

Precision balance KERN 440



02

The bestseller in basic laboratory balances

Features

- Only for models with weighing plate sizes **A**. Ring-shaped draft shield standard. Weighing space ØxH 90x40 mm
- UNITS: Further weighing units see the internet

Options

- Protective working cover over keyboard and housing, standard, can be reordered € 20,- for models with weighing plate sizes
 - A** KERN 440-210-002
 - B** KERN 440-330-002
 - C** KERN 440-450-002
 - D** KERN 440-530-002
- Rechargeable battery pack internal, operating time approx. 12 h, charging time approx. 10 h, KERN FCB-A01, € 35,-
- Second display, KERN YKD-A01, € 95,-
- **1** Standard printer, KERN YKB-01N, € 240,-
- Label printer with printout configuration and barcode function, KERN YKL-01, € 650,-
- **2** Statistics printer, KERN YKT-01, € 820,-
- **3** Statistics printer, KERN YKS-01, € 390,-

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions of weighing plate (stainless steel*):
 - A** Ø 81 mm
 - B** Ø 105 mm*
 - C** 130x130 mm*
 - D** 150x170 mm*, see larger picture
- Optional battery operation, 9V Block, not included. AUTO-OFF function to preserve the battery
- Overall dimensions (without draft shield) WxDxH 165x230x80 mm
- Net weight approx. 1 kg
- Permissible ambient temperature 5°C / 35°C

STANDARD



1 2 3

OPTION



STANDARD



OPTION



Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
440-21A	60	0,001	0,001	± 0,003	0,002	A	290,-	963-127	65,-
440-33N	200	0,01	0,01	± 0,02	0,02	B	240,-	963-127	65,-
440-35N	400	0,01	0,01	± 0,03	0,02	B	270,-	963-127	65,-
440-35A	600	0,01	0,01	± 0,03	0,02	B	300,-	963-127	65,-
440-43N	400	0,1	0,1	± 0,2	0,2	C	150,-	963-127	65,-
440-45N	1000	0,1	0,1	± 0,2	0,2	C	200,-	963-127	65,-
440-47N	2000	0,1	0,1	± 0,2	0,2	C	220,-	963-127	65,-
440-49N	4000	0,1	0,1	± 0,3	0,2	D	270,-	963-127	65,-
440-49A	6000	0,1	0,1	± 0,3	0,2	D	300,-	963-128	80,-
440-51N	4000	1	1	± 2	2	D	130,-	963-127	65,-
440-53N	6000	1	1	± 2	2	D	150,-	963-128	80,-



The economical solution for the bargain hunter

Precision balance KERN PCB



02

Features

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit (e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar)
- Only for models with weighing plate sizes **A**: Ring-shaped draft shield, standard. Weighing space ØxH 90x40 mm

Options

- Protective working cover over keyboard and housing, standard, can be reordered, **€ 20,-** for models with weighing plate sizes
 - A** KERN PCB-A02
 - B** KERN PCB-A03
 - C** KERN PCB-A04
 - D** KERN PCB-A05
- Hook for underfloor weighing to weigh hanging loads, standard, can be reordered, **KERN 440-A01, € 20,-**
- Rechargeable battery pack internal, operating time approx. 24 h, charging time approx. 8 h. AUTO-OFF function to preserve the battery, can be switched off, **KERN PCB-A01, € 45,-**
- **1** Second display for the table, cable length approx. 1.5 m. Including 2 data interfaces RS 232 C for data transfer to printer or PC, **KERN YKD-A01, € 95,-**
- **2** Standard printer, **KERN YKB-01N, € 240,-**
- **3** Label printer with printout configuration and barcode function, **KERN YKL-01, € 650,-**
- **4** Statistics printer, **KERN YKT-01, € 820,-**
- **5** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions of weighing plate (stainless steel*):
 - A** ø 81 mm
 - B** ø 105 mm*
 - C** 130x130 mm*
 - D** 150x170 mm*, see larger picture
- Optional battery operation, 9V Block, not included. AUTO-OFF function to preserve the battery, can be switched off
- Overall dimensions WxDxH 163x245x79 mm
- Net weight approx. 1,1 kg
- Permissible ambient temperature 5°C / 35°C

STANDARD



OPTION



STANDARD



OPTION



Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
KERN PCB 100-3	100	0,001	0,001	± 0,003	0,002	1,1	A	210,-	963-127	65,-
KERN PCB 250-3	250	0,001	0,001	± 0,003	0,002	1,1	A	240,-	963-127	65,-
KERN PCB 350-3	350	0,001	0,001	± 0,003	0,002	1,1	A	270,-	963-127	65,-
KERN PCB 200-2	200	0,01	0,01	± 0,02	0,02	1,1	B	170,-	963-127	65,-
KERN PCB 1000-2	1000	0,01	0,01	± 0,03	0,02	1,1	C	195,-	963-127	65,-
KERN PCB 2500-2	2500	0,01	0,01	± 0,03	0,02	1,4	C	240,-	963-127	65,-
KERN PCB 3500-2	3500	0,01	0,01	± 0,03	0,02	1,4	C	260,-	963-127	65,-
KERN PCB 1000-1	1000	0,1	0,1	± 0,2	0,2	1,1	C	135,-	963-127	65,-
KERN PCB 2000-1	2000	0,1	0,1	± 0,2	0,2	1,1	C	160,-	963-127	65,-
KERN PCB 6000-1	6000	0,1	0,1	± 0,3	0,2	1,1	D	180,-	963-128	80,-
KERN PCB 10000-1	10000	0,1	0,1	± 0,3	0,2	1,1	D	190,-	963-128	80,-
KERN PCB 6000-0	6000	1	1	± 2	2	1,1	D	100,-	963-128	80,-



Low-cost precision balance with wide range of functions

Features

- Compact size, practical for small spaces
- Rechargeable battery pack internal, standard, operating time approx. 30 h, charging time approx. 10 h. Charge condition indicator on display
- Percentage determination: makes it possible to store a given weight value (100%) and to determine deviations from this target value
- Weighing with tolerance range (check-weighing): Input of an upper / lower limit value. A visual signal assists with portion division, dispensing or grading

- Weighing sum memory adds individual weighing results
- Only for models with weighing plate sizes **A**: Ring-shaped draft shield standard. Removable metal cover with pipette opening. Weighing space ØxH 125x70 mm

Options

- **1** Standard printer, **KERN YKB-01N, € 240,-**
- **2** Statistics printer, **KERN YKT-01, € 820,-**
- **3** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD, digit height 15 mm
- Dimensions of weighing plate (stainless steel):
A Ø 80 mm
B Ø 135 mm, see larger picture
- Overall dimensions (incl. draft shield): WxDxH 185x250x140 mm
- Net weight approx. 1,5 kg
- Permissible ambient temperature 10°C / 30°C

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
PLE 310-3N	310	0,001	0,001	± 0,002	0,005	A	320,-	963-127	65,-
PLE 3100-2N	3100	0,01	0,01	± 0,02	0,05	B	320,-	963-127	65,-



Convenient model at a basic price, also with EC-Type Approval [M]

Features

- User guidance step by step through Yes/No dialogue on the display
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Freely programmable weighing unit (e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar)
- Only for models with weighing plate sizes **A**: Ring-shaped draft shield standard, Weighing space ØxH 90x40 mm

Options

- Protective working cover over keyboard and housing, standard, can be reordered, € 20,- for models with weighing plate sizes **A** **KERN PCB-A02** **B** **KERN PCB-A04** **C** **KERN PCB-A05**
- Rechargeable battery pack internal, operating time approx. 15 h, charging time approx. 10 h, **KERN KB-A01N, € 45,-**
- Rechargeable battery pack external, operating time approx. 25 h, charging time approx. 10 h, **KERN KS-A01, € 170,-**

- **1** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **2** Statistics printer, **KERN YKT-01, € 820,-**
- **3** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD, digit height 9 mm
- Dimensions of weighing plate (stainless steel*): **A** Ø 81 mm **B** 130x130 mm* **C** 150x170 mm*, see larger picture
- Overall dimensions WxDxH 167x250x123 mm
- Net weight approx. 1,1 kg
- Permissible ambient temperature KB-N: 10°C / 40°C KB-NM: 15°C / 30°C

STANDARD

OPTION

STANDARD

OPTION

FACTORY

Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M II KERN	€	DKD KERN	€
KB 120-3N	121	0,001	-	0,001	± 0,003	A	250,-	-	-	963-127	65,-
KB 200-3N	201	0,001	-	0,001	± 0,003	A	270,-	-	-	963-127	65,-
KB 240-3N	241	0,001	-	0,001	± 0,003	A	280,-	-	-	963-127	65,-
KB 360-3N	361	0,001	-	0,001	± 0,005	A	300,-	-	-	963-127	65,-
KB 1200-2N	1210	0,01	-	0,01	± 0,03	B	250,-	-	-	963-127	65,-
KB 2000-2N	2010	0,01	-	0,01	± 0,03	B	270,-	-	-	963-127	65,-
KB 2400-2N	2410	0,01	-	0,01	± 0,03	B	280,-	-	-	963-127	65,-
KB 3600-2N	3610	0,01	-	0,01	± 0,05	B	300,-	-	-	963-127	65,-
KB 10K0.05N	10100	0,05	-	0,05	± 0,15	C	270,-	-	-	963-128	80,-
KB 10000-1N	10100	0,1	-	0,1	± 0,3	C	240,-	-	-	963-128	80,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

KB 650-2NM	650	0,01	0,1	0,01	± 0,03	B	340,-	950-116	55,-	963-127	65,-
KB 2000-2NM	2000	0,01	0,1	0,01	± 0,03	B	380,-	950-116	55,-	963-127	65,-
KB 6500-1NM	6500	0,1	1	0,1	± 0,2	C	340,-	950-117	70,-	963-128	80,-
KB 10000-1NM	10000	0,1	1	0,1	± 0,2	C	380,-	950-117	70,-	963-128	80,-



All-rounder e.g. as laboratory, counting or checking balance, also with EC-Type Approval [M]

- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **5** Statistics printer, **KERN YKT-01, € 820,-**
- **6** Statistics printer, **KERN YKS-01, € 390,-**

Features

- Robust metal housing
- Only 572: Freely programmable weighing unit (e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar)
- Weighing plate **A**: Ring-shaped draft shield standard. Weighing space ØxH 157x43 mm
- **1** UNITS: Further weighing units see the internet (only 572)

Options

- Protective working cover standard, can be reordered, **KERN 572-A02, € 25,-**
- **2** Only 572: Rechargeable battery pack external, operating time approx. 25 h, charging time approx. 10 h, **KERN KS-A01, € 170,-**
- **3** Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 150x140x130 mm (only for models with weighing plate sizes **A**), **KERN 572-A05, € 160,-**

Technical data

- Large backlit LCD, digit height 18 mm
- Dimensions of weighing plate (stainless steel):
 - A** Ø 106 mm
 - B** Ø 150 mm
 - C** 160x200 mm, see larger picture
- Overall dimensions WxDxH 180x310x85 mm
- Net weight approx. 2,3 kg
- Permissible ambient temperature
 - 572: 10°C / 40°C
 - 573: 10°C / 30°C

STANDARD



OPTION



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Linearity g	Reproducibility g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
									MII KERN	€	DKD KERN	€
572-30	241	0,001	-	± 0,003	0,001	2,3	A	390,-	-	-	963-127	65,-
572-31	301	0,001	-	± 0,003	0,001	2,3	A	400,-	-	-	963-127	65,-
572-32	421	0,001	-	± 0,005	0,002	2,3	A	430,-	-	-	963-127	65,-
572-33	1610	0,01	-	± 0,03	0,01	2,3	B	370,-	-	-	963-127	65,-
572-35	2410	0,01	-	± 0,03	0,01	2,3	B	380,-	-	-	963-127	65,-
572-37	3010	0,01	-	± 0,05	0,01	2,3	B	390,-	-	-	963-127	65,-
572-39	4210	0,01	-	± 0,05	0,02	2,3	B	440,-	-	-	963-127	65,-
572-43	10100	0,1	-	± 0,3	0,1	2,3	C	360,-	-	-	963-128	80,-
572-49	16100	0,1	-	± 0,3	0,1	2,7	C	370,-	-	-	963-128	80,-
572-45	12100	0,05	-	± 0,15	0,05	2,7	C	390,-	-	-	963-128	80,-
572-55	20100	0,05	-	± 0,15	0,1	2,7	C	430,-	-	-	963-128	80,-
572-57	24100	0,1	-	± 0,3	0,1	2,7	C	390,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.												
573-34NM	650	0,01	0,1	± 0,02	0,01	2,3	B	460,-	950-116	55,-	963-127	65,-
573-36NM	2000	0,01	0,1	± 0,03	0,01	2,3	B	490,-	950-116	55,-	963-127	65,-
573-46NM	6500	0,1	1	± 0,2	0,1	2,7	C	460,-	950-117	70,-	963-128	80,-
573-56NM	20000	0,1	1	± 0,3	0,1	2,7	C	490,-	950-117	70,-	963-128	80,-



02

Verifiable entry level model in the upper laboratory class with EC-Type Approval [M]

Features

- Very fast display: steady weight values within 2 sec
- Capacity display: A bar lights up to show how much of the weighing range is still available
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Weighing with tolerance range (check-weighing): Input of an upper / lower limit value. A visual signal assists with portion division, dispensing or grading
- UNITS: Further weighing units see the internet

Options

- Protective working cover over keyboard and housing, standard, can be reordered, **KERN EG-A05, € 20,-**
- Rechargeable battery pack internal, operating time approx. 32 h, charging time approx. 10 h, **KERN EWB-A01, € 100,-**
- Loop for underfloor weighing, **KERN EG-A07, € 36,-**

Technical data

- Large LCD display, digit height 17 mm
- Dimensions of weighing plate (stainless steel):
 - A** ø 140 mm, see larger picture
 - B** 170x140 mm
- Overall dimensions WxDxH 182x235x75 mm
- Net weight approx. 1,1 kg
- Permissible ambient temperature 10°C / 30°C

STANDARD



OPTION



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] g	Verification value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
KERN								M II	€	DKD	€
EWB 220-2M	220	0,01	0,01	0,01	± 0,01	A	460,-	KERN	55,-	KERN	65,-
EWB 620-2M	620	0,01	0,1	0,01	± 0,01	A	490,-	KERN	55,-	KERN	65,-
EWB 1200-1M	1200	0,1	0,1	0,1	± 0,1	B	460,-	KERN	55,-	KERN	65,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.



Verifiable gold and laboratory balance with EC-Type Approval [M]

Features

- Short stabilisation time: Steady weight values within approx. 2 sec
- Capacity display: A bar lights up to show how much of the weighing range is still available
- Weighing plate **A**: Ring-shaped draft shield standard. Weighing space ØxH 155x57 mm

Options

- Protective working cover over keyboard and housing, standard, can be reordered, **KERN EG-A02, € 20,-**

- **1** Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 150x140x130 mm (only KERN EW 150-3M), **KERN EG-A01, € 160,-**
- **2** Rechargeable battery pack internal, operating time approx. 12 h, charging time approx. 12 h, AUTO-OFF function to preserve the battery, **KERN EW-A02, € 100,-**
- **3** Data interface, **KERN EW-A01, € 120,-**
- **2 3** only one option possible
- Standard printer, **KERN YKB-01N, € 240,-**
- Statistics printer, **KERN YKT-01, € 820,-**
- Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Large LCD display, digit height 17 mm
- Dimensions of weighing plate (stainless steel):
 - A** Ø 110 mm
 - B** Ø 140 mm
 - C** 172x142 mm, see larger picture
- Overall dimensions (without draft shield) WxDxH 177x230x88 mm
- Net weight approx. 1,7 kg
- Permissible ambient temperature 10°C / 30°C

STANDARD	OPTION	STANDARD	OPTION	FACTORY
CAL EXT	230 V	T-FORK	ACCU	RS 232
	1 DAY	3 YEARS GUARANTY	DKD +3 DAYS	M +7 DAYS
	2	3		

Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								KERN	€	KERN	€
EW 150-3M	150	0,001	0,01	0,002	± 0,003	A	600,-	950-116	55,-	963-127	65,-
EW 600-2M	600	0,01	0,1	0,01	± 0,02	B	570,-	950-116	55,-	963-127	65,-
EW 1500-2M	1500	0,01	0,1	0,01	± 0,02	B	620,-	950-116	55,-	963-127	65,-
EW 3000-2M	3000	0,01	0,1	0,01	± 0,02	B	720,-	950-116	55,-	963-127	65,-
EW 6000-1M	6000	0,1	1	0,1	± 0,2	C	570,-	950-117	70,-	963-128	80,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

Precision balance KERN PLJ



Excellent performance at a very reasonable price, with EC-Type Approval (M)

Features

- Automatic internal adjustment in the case of a change in temperature > 3°C or time-controlled every 3 hours
- Only PLJ-GM: Ergonomically optimised keypad for left and righthanded users
- **1** Draft shield standard (on all models with readout d = 0,001 g). Weighing space WxDxH 140x140x65 mm
- Only PLJ-GM: Rechargeable battery pack internal, standard, operating time approx. 35 h, charging time approx. 12 h
- **2** only PLJ-GM: Weighing with tolerance range (checkweighing): Input of an upper / lower limit value. A visual signal assists with portion division, dispensing or grading

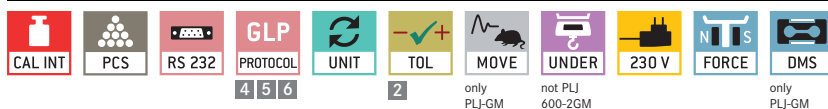
Options

- Protective working cover standard, can be reordered, **KERN ALS-A02, € 20,-**
- **3** Set for density determination of liquids and solids with density ≥ 1, only suitable for models with readout d = 0,001 g (PLJ-N). The density is indicated directly on the display, sim. to illustration, **KERN PLS-A01, € 530,-**
- **4** Standard printer, **KERN YKB-01N, € 240,-**
- **5** Statistics printer, **KERN YKT-01, € 820,-**
- **6** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD, digit height 17 mm
- Dimensions of weighing plate (stainless steel):
A 128x128 mm
B 195x195 mm, see larger picture
- Overall dimensions WxDxH without draft shield 206x335x85 mm incl. draft shield 206x335x157 mm
- Net weight approx. 3,6 kg
- Permissible ambient temperature 15°C / 30°C

STANDARD



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
KERN								M II KERN	€	DKD KERN	€
PLJ 750-3N	750	0,001	0,002	± 0,003	0,005	A	990,-	-	-	963-127	65,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.											
PLJ 360-3NM	360	0,001	0,001	± 0,004	0,005	A	750,-	950-116	55,-	963-127	65,-
PLJ 600-3NM	600	0,001	0,002	± 0,004	0,005	A	810,-	950-116	55,-	963-127	65,-
PLJ 600-2GM	600	0,01	0,02	± 0,02	0,01	A	590,-	950-116	55,-	963-127	65,-
PLJ 3500-2NM	3500	0,01	0,01	± 0,04	0,01	B	750,-	950-116	55,-	963-127	65,-
PLJ 6000-1GM	6000	0,1	0,2	± 0,2	0,1	B	590,-	950-117	70,-	963-128	80,-



Excellent performance, excellent price - now also with internal adjustment

Precision balance KERN PLS · PLJ



Features

- Dual range balances (D = Dual). The total weighing range is subdivided into 2 sub-ranges and begins with a high resolution readout in the fine weighing range. If this range is exceeded the balance automatically switches to the higher weighing range with the lower resolution readout.
- **1** Ergonomically optimised keypad for left and righthanded users
- Glass draught guard, standard for models with weighing plate sizes **A**. Removable metal cover with pipette opening. Weighing space ØxH 150x60 mm
- **2** only PLJ: Automatic internal adjustment
- **3** only PLS: Adjusting program CAL, for quick setting of the balance accuracy, external test weights at an additional price
- UNITS: Further weighing units see the internet

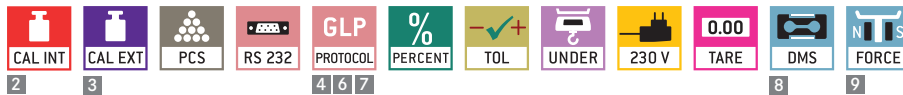
Options

- Protective working cover standard, can be reordered, **KERN PLJ-A01, € 25,-**
- Hook for underfloor weighing to weigh hanging loads, **KERN PLJ-A02, € 20,-**
- **4** Standard printer, **KERN YKB-01N, € 240,-**
- **5** Label printer, **KERN YKL-01, € 650,-**
- **6** Statistics printer, **KERN YKT-01, € 820,-**
- **7** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD, digit height 17 mm
- Dimensions of weighing plate (stainless steel):
 - A** Ø 110 mm
 - B** Ø 160 mm, see larger picture
 - C** 200x175 mm
- Overall dimensions WxDxH for models with weighing plate sizes
 - A** 210x340x160 mm
 - B** 210x340x100 mm
 - C** 210x340x100 mm
- **B** Weighing principle: Strain gauge (only PLS-F and PLJ-F)
- **9** Weighing principle: Force compensation (only PLS-A and PLJ-A)
- Net weight approx. 4,5 kg
- Permissible ambient temperature 5°C / 35°C

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option	
								DKD	Kern Certificate
KERN									
PLS 310-3F	310	0,001	0,002	± 0,003	0,005	A	430,-	963-127	65,-
PLS 510-3A	510	0,001	0,002	± 0,002	0,005	A	720,-	963-127	65,-
PLS 720-3A	720	0,001	0,001	± 0,002	0,005	A	730,-	963-127	65,-
PLS 1200-3A	1200	0,001	0,001	± 0,003	0,005	A	790,-	963-127	65,-
PLS 1200-3DA	720 1200	0,001 0,01	0,001 0,01	± 0,002 ± 0,02	0,005	A	730,-	963-127	65,-
PLS 3100-2F	3100	0,01	0,02	± 0,03	0,05	B	430,-	963-127	65,-
PLS 4200-2A	4200	0,01	0,01	± 0,02	0,05	B	690,-	963-127	65,-
PLS 6200-2A	6200	0,01	0,01	± 0,03	0,05	B	730,-	963-128	80,-
PLS 6200-2DA	4200 6200	0,01 0,1	0,01 0,1	± 0,02 ± 0,2	0,05	B	690,-	963-128	80,-
PLS 20000-1F	20000	0,1	0,1	± 0,4	0,5	C	440,-	963-128	80,-
PLJ 310-3F	310	0,001	0,001	± 0,003	0,005	A	530,-	963-127	65,-
PLJ 720-3A	720	0,001	0,001	± 0,002	0,005	A	790,-	963-127	65,-
PLJ 1200-3A	1200	0,001	0,001	± 0,003	0,005	A	890,-	963-127	65,-
PLJ 1200-3DA	720 1200	0,001 0,01	0,001 0,01	± 0,003 ± 0,03	0,005	A	830,-	963-127	65,-
PLJ 3100-2F	3100	0,01	0,01	± 0,03	0,05	B	530,-	963-127	65,-
PLJ 6200-2A	6200	0,01	0,01	± 0,03	0,05	B	830,-	963-128	80,-
PLJ 6200-2DA	4200 6200	0,01 0,1	0,01 0,1	± 0,03 ± 0,3	0,05	B	790,-	963-128	80,-

■ Price reduction

■ New model



Top of the range cost-effectiveness, with EC-Type Approval [M]

Precision balance KERN EW-N · EG-N



Features

- Capacity display: A bar lights up to show how much of the weighing range is still available
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Weighing with tolerance range (check-weighing): Input of an upper / lower limit value. A visual signal assists with portion division, dispensing or grading
- **1** Only EG-NM: Internal rotary adjustment control (CAL) on the side. Guarantees high degree of accuracy and makes the location irrelevant
- **2** Adjusting program (CAL), for quick setting of the balance accuracy, external test weights at an additional price
- Draft shield standard for models with weighing plate sizes **A**. Removable metal cover with pipette opening. Weighing space WxDxH 158x130x78 mm

Options

- Protective working cover over keyboard and housing, standard, can be reordered. for models with weighing plate sizes **A**, **B** KERN EG-A05, € 20,- **C** KERN EG-A09, € 20,-
- Rechargeable battery pack internal, operating time approx. 12 h, charging time approx. 12 h. Charge condition indicator on display. AUTO-OFF function to preserve the battery, can be switched off. For models with weighing plate sizes **A**, **B** KERN EG-A04, € 100,- **C** KERN EG-A06, € 100,-
- **3** Large glass draught shield with 3 sliding doors for easy access to the items being weighed, Weighing space WxDxH 150x140x130 mm, can be reordered for models with weighing plate sizes **A**, **KERN EG-A03, € 160,-**

- Loop for underfloor weighing, for models with weighing plate sizes **A**, **B** KERN EG-A07, € 36,- **C** KERN EG-A08, € 36,-
- **4** Standard printer, KERN YKB-01N, € 240,-
- **5** Label printer, KERN YKL-01, € 650,-
- **6** Statistics printer, KERN YKT-01, € 820,-
- **7** Statistics printer, KERN YKS-01, € 390,-

Technical data

- Large LCD display, digit height 17 mm
- Dimensions of weighing plate (stainless steel): **A** ø 118 mm, see larger picture **B** 170x142 mm **C** 180x160 mm
- Overall dimensions (without draft shield)WxDxH **A**, **B** 182x235x75 mm **C** 192x265x87 mm
- Net weight approx. 3,7 kg
- Permissible ambient temperature 10°C / 30°C

STANDARD



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options				
								Verification		DKD Calibr. Certificate		
								M KERN	€	DKD KERN	€	€
EW 220-3NM	220	0,001	0,01	0,001	± 0,002	A	650,-	950-116	II	55,-	963-127	65,-
EW 420-3NM	420	0,001	0,01	0,001	± 0,003	A	730,-	950-116	II	55,-	963-127	65,-
EW 620-3NM	620	0,001	-	0,001	± 0,003	A	820,-	-	-	-	963-101	125,-
EW 820-2NM	820	0,01	-	0,01	± 0,01	B	560,-	-	-	-	963-101	125,-
EW 2200-2NM	2200	0,01	0,1	0,01	± 0,01	C	690,-	950-116	II	55,-	963-127	65,-
EW 4200-2NM	4200	0,01	0,1	0,01	± 0,02	C	780,-	950-116	II	55,-	963-127	65,-
EW 6200-2NM	6200	0,01	-	0,01	± 0,03	C	870,-	-	-	-	963-102	160,-
EW 12000-1NM	12000	0,1	1	0,1	± 0,2	C	670,-	950-117	II	70,-	963-128	80,-
EG 220-3NM	220	0,001	0,01	0,001	± 0,002	A	770,-	950-116	II	55,-	963-127	65,-
EG 420-3NM	420	0,001	0,01	0,001	± 0,003	A	860,-	950-116	II	55,-	963-127	65,-
EG 620-3NM	620	0,001	0,01	0,001	± 0,004	A	970,-	950-101	I	100,-	963-101	125,-
EG 2200-2NM	2200	0,01	0,1	0,01	± 0,01	C	820,-	950-116	II	55,-	963-127	65,-
EG 4200-2NM	4200	0,01	0,1	0,01	± 0,02	C	910,-	950-116	II	55,-	963-127	65,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.



- Relay output with 5 outputs for weighing result in 3 tolerance ranges, must be ordered at purchase, **KERN PES-A02, € 440,-**
- Label printer, **KERN YKL-01, € 650,-**
- **5** Standard printer, **KERN YKB-01N, € 240,-**
- **6** Statistics printer, **KERN YKT-01, € 820,-**
- **7** Statistics printer, **KERN YKS-01, € 390,-**

Robust laboratory and industrial precision balance, with EC-Type Approval [M]

Features

- Metal housing: robust and sturdy
- Weighing with tolerance range (check-weighing): Input of 2 upper and 2 lower limit values through 4 arrow keys. An acoustic signal assists with the portion division, dispensing or grading
- **1** Draft shield standard, Removable metal cover with pipette opening, on all models with readout d = 0,001 g. Weighing space WxDxH 170x150x100 mm
- **2** only PEJ: Automatic internal adjustment

- **3** only PES: Adjusting program CAL, for quick setting of the balance accuracy, external test weights at an additional price

Options

- Protective working cover standard, can be reordered (not for KERN PES 31000-1M), **KERN PES-A04, € 20,-**
- **4** Only PES: Rechargeable battery pack internal, operating time approx. 6 h, charging time approx. 15 h (internal charging with mains adapter), must be ordered at purchase, **KERN PES-A01, € 560,-**

Technical data

- Fluorescent display bright with high contrast, digit height 12,5 mm
- Dimensions of weighing plate (stainless steel):
 - A** 140x120 mm
 - B** 200x200 mm, see larger picture
 - C** 250x220 mm
- Overall dimensions (without draft shield) WxDxH for models with weighing plate sizes
 - A** 220x333x93 mm
 - B** 220x333x93 mm
 - C** 260x333x110 mm
- Permissible ambient temperature 10°C / 30°C

! *Only while stocks last

STANDARD										FACTORY		STANDARD		OPTION		FACTORY		
2	3	2 ports		5	6	7						4						

Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Repro-ducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options				
									Verification		DKD Calibr. Certificate		
									M	KERN	€	DKD	KERN
PES 220-3M*	220	0,001	0,01	0,001	± 0,002	4	A	690,-	950-116	II	55,-	963-127	65,-
PES 420-3M*	420	0,001	0,01	0,001	± 0,003	4	A	790,-	950-116	II	55,-	963-127	65,-
PES 620-3M	620	0,001	-	0,001	± 0,003	4	A	1230,-	950-127	-	-	963-127	65,-
PES 2200-2M	2200	0,01	0,1	0,01	± 0,02	4	B	890,-	950-116	II	55,-	963-127	65,-
PES 4200-2M	4200	0,01	0,1	0,01	± 0,02	4	B	1050,-	950-116	II	55,-	963-127	65,-
PES 6200-2M	6200	0,01	-	0,01	± 0,03	4	B	1260,-	950-128	-	-	963-128	80,-
PES 8200-1M	8200	0,1	1	0,1	± 0,2	4	B	1150,-	950-117	II	70,-	963-128	80,-
PES 15000-1M	15000	0,1	1	0,1	± 0,2	4	B	1250,-	950-117	II	70,-	963-128	80,-
PES 31000-1M	31000	0,1	1	0,1	± 0,4	8,9	C	1990,-	950-117	II	70,-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.													
PEJ 420-3M	420	0,001	0,01	0,001	± 0,003	6	A	850,-	950-116	II	55,-	963-127	65,-
PEJ 620-3M	620	0,001	0,01	0,001	± 0,003	6	A	1430,-	950-101	I	100,-	963-101	125,-
PEJ 2200-2M	2200	0,01	0,1	0,01	± 0,02	6	B	1100,-	950-116	II	55,-	963-127	65,-
PEJ 4200-2M	4200	0,01	0,1	0,01	± 0,02	6	B	1240,-	950-116	II	55,-	963-127	65,-

Price reduction



KERN YBI-01



Ioniser to neutralise electrostatic charge

Features:

Goods to be weighed which are non-conductive, such as plastic, china, glass, etc often carry electrostatic charge. The electromagnetic field which then occurs between the goods to be weighed and the balance can cause the weighing result to be distorted by up to a gramme. Therefore, when weighing in milligrammes or even smaller increments, we recommend neutralising the electrostatic charge with the KERN AC-Korona discharge ioniser. With the mount supplied with the ioniser **1**, **2**, it can be positioned conveniently

next to the balance or you can manually direct it from all sides onto a particular item to be weighed **3**.

Technical data:

- **Neutralisation:** ± 20V
- **Discharge of ozone:** 0,04 ppm/h
- **Dimensions:** WxDxH 97x53x31 mm, 150x150x90mm incl. holder
- **Net weight:** approx. 0,11 kg approx. 0,55 kg incl. mount
- **Mains connection:** 110-230V/50Hz, AC power supply, 12V DC output

KERN YBI-01, € 820,-



KERN YKS-01

Statistics printer

Features:

for balances with RS 232 C data interface (see table on page 126). Quiet thermal printer with 0.75 lines/sec and max. 40 characters per line. GLP record keeping of balance adjustment with date and time print. Numerator; with statistical functions such as count and total of all measurements, minimum and maximum values of the main unit, range (Max-Min). Average value, standard deviations, available units: mg, g, kg, pcs. Language versions D, GB, F, PL.

Accessories:

Paper rolls (10 pcs.), **KERN YKB-A 10, € 35,-** Compatible interface cable, see page 126

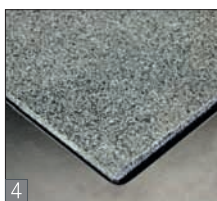
Technical data:

- **Paper strip:** 112 mm wide.
- **Dimensions:** WxDxH 165x140x50 mm.
- **Operation via mains adapter:** 230V/50Hz (standard).

Please state balance model, in order for printer to be preconfigured. Price excluding interface cable, **KERN YKS-A01, € 390,-**



KERN YPS-01



STANDARD



Weighing table

Features:

Accurate measuring results require stable working conditions! The KERN YPS-01 weighing table has been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result. The YPS-01 weighing table consists of:

- **4** Polished marble plate (49 kg) as integrated working surface, positioned on absorbing rubber components
- Work table with aluminium profile frame and height-adjustable feet

Technical data:

- **Overall dimensions** WxDxH 800x600x782 mm
- **Dimensions marble plate:** WxD 400x450 mm
- **Net weight:** approx. 77 kg

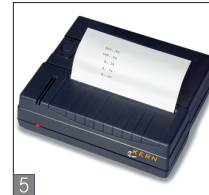
Dispatch complete on pallet. Please ask for dimensions, gross weight, and shipping costs.

KERN YPS-01, € 740,-



Multifunctional laboratory balance with single-cell weighing system and EC-Type Approval [M]

Precision balance KERN PBS · PBJ



02

Features

- 1 only PBJ: Automatic internal adjustment in the case of a change in temperature or time-controlled at defined intervals
- Metal housing: robust and sturdy
- Dosage aid: High-stability mode and other filter settings can be selected
- Weighing with tolerance range (check-weighing): Input of an upper / lower limit value. A visual signal assists with portion division, dispensing or grading
- Totalizing of individual weighing results
- Simple recipeweighing and documenting with a combined tare/print function. In addition, the mixing ingredients for the recipe are numbered automatically and printed out with their corresponding number and weight value
- Identification number: 4 numeric positions, printed on calibration protocol
- Freely programmable weighing unit (e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar)

- Automatic data output to the PC/printer every time the balance is steady
- 2 only PBS: Adjusting program (CAL), for quick setting of the balance accuracy
- 3 Draft shield standard. Removable cover with pipette opening, on all models with readout d = 0,001 g, Weighing space WxDxH 184x203x90 mm
- UNITS: Further weighing units see the internet

Options

- Protective working cover over keyboard and housing, standard, can be reordered, € 20,- for models with weighing plate sizes
 - A KERN PBS-A01
 - B KERN PBS-A02
- Set for density determination for models with weighing plate sizes
 - A KERN PBS-A04, € 650,-
 - B KERN PBS-A03, € 650,-
- 5 Standard printer, KERN YKB-01N, € 240,-
- 6 Label printer, KERN YKL-01, € 650,-
- 7 Statistics printer, KERN YKT-01, € 820,-
- 8 Statistics printer, KERN YKS-01, € 390,-

Technical data

- Large backlit LCD, digit height 14 mm
- Dimensions of weighing plate (stainless steel):
 - A 108x105 mm
 - B 170x180 mm, see larger picture
- Overall dimensions (without draft shield): WxDxH 200x320x80 mm
- Net weight approx. 3,4 kg
- Permissible ambient temperature 10°C / 30°C

1 * Only while stocks last

4 Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- Stable temperature behaviour
- Short stabilisation time: 3 sec
- Shock proof construction
- High corner load performance

STANDARD



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Minimal load [Min] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options				
									Verification		DKD Calibr. Certificate		
									M KERN	€	DKD KERN	€	
PBS 420-3M	420	0,001	0,01	0,02	0,001	± 0,002	A	980,-	950-116	II	55,-	963-127	65,-
PBS 620-3M	620	0,001	-	-	0,001	± 0,002	A	1170,-	-	-	-	963-127	65,-
PBS 4200-2M	4200	0,01	0,1	0,5	0,01	± 0,02	B	1000,-	950-116	II	55,-	963-127	65,-
PBS 6200-2M	6200	0,01	-	-	0,01	± 0,02	B	1210,-	-	-	-	963-102	160,-
PBS 8200-1M	8200	0,1	1	5	0,1	± 0,2	B	1020,-	950-117	II	70,-	963-128	80,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

PBJ 420-3M*	420	0,001	0,01	0,02	0,001	± 0,002	A	990,-	950-116	II	55,-	963-127	65,-
PBJ 620-3M	620	0,001	0,01	0,1	0,001	± 0,002	A	1370,-	950-101	I	100,-	963-101	125,-
PBJ 4200-2M	4200	0,01	0,1	0,5	0,01	± 0,02	B	1200,-	950-116	II	55,-	963-127	65,-
PBJ 6200-2M	6200	0,01	0,1	4	0,01	± 0,02	B	1410,-	950-102	I	100,-	963-102	160,-
PBJ 8200-1M	8200	0,1	1	5	0,1	± 0,2	B	1220,-	950-117	II	70,-	963-128	80,-

Price reduction

3 Analytical balances

KERN Model		Page
ABS ABJ	First-class standard for small budgets, also with EC-Type Approval [M]	35
ALS-A ALJ-A	Precision and price down to a point – now also with internal adjustment	36
AES AEJ	Compact high-end analytical balance	37
ABT	The premium model with single-cell weighing system	38



KERN Analytical balances with Single-cell cutting edge technology



To satisfy stricter requirements for precision, speed, and reproducibility of weight values, monolithic balance cells are increasingly the standard. These are measurement sensors for determination of weight that are fabricated from an aluminium block. These systems distinguish themselves from conventional balance cells in terms of both quality and performance:

- Higher measurement speed
- Better measurement precision
- Stable temperature behaviour

- Improved mechanical sturdiness
- Higher corner load reliability

KERN analytical balances on this measurement principle are designated as using „Single Cell Technology“.

To avoid relevant result variations when weighing with high-precision analytical balances, we recommend noting a few basic things:

- Daily adjustment, particularly if there are temperature variations, etc.
- Use of the internal automatic adjustment feature is strongly recommended
- Avoidance of air movement, e.g. open doors, windows, wind protection
- Use of a special weighing table, e.g. **KERN YPS-01**, p. 31
- Use of an ioniser to neutralise electrostatic charges on the items being weighed, e.g. **KERN YBI-01**, p. 31

Quick-Finder Analytical balances

■ = Standard □ = Option

Read-out	Weighing range	Model	Price €	Page	DAYS									
d	Max	KERN	excl. VAT ex works		ready for shipping	For an explanation of the symbols, see the flap of the envelope								
0,01 mg	101 g	ABT 100-5M	1810,-	38	1	■	■		■	■				
0,01/0,1 mg	42/120 g	ABT 120-5DM	1980,-	38	1	■	■		■	■				
0,01/0,1 mg	82/220 g	ABT 220-5DM	2160,-	38	1	■	■		■	■				
0,1 mg	83 g	ABS 80-4	770,-	35	1			■	■	■				
0,1 mg	83 g	ABJ 80-4M	880,-	35	1	■	■		■	■				
0,1 mg	120 g	ABS 120-4	820,-	35	1			■	■	■				
0,1 mg	120 g	ABJ 120-4M	930,-	35	1	■	■		■	■				
0,1 mg	120 g	AES 120-4	1190,-	37	1			■	■	■				
0,1 mg	120 g	AEJ 120-4M	1270,-	37	1	■	■		■	■				
0,1 mg	120 g	ABT 120-4M	1420,-	38	1	■	■		■	■				
0,1 mg	160 g	ALS 160-4A	950,-	36	1			■	■	■				
0,1 mg	160 g	ALJ 160-4A	1040,-	34	1		■	■	■	■				
0,1 mg	220 g	ABS 220-4	910,-	35	1			■	■	■				
0,1 mg	220 g	ABJ 220-4M	990,-	35	1	■	■		■	■				
0,1 mg	220 g	AES 220-4	1240,-	37	1			■	■	■				
0,1 mg	220 g	AEJ 220-4M	1320,-	37	1	■	■		■	■				
0,1 mg	220 g	ABT 220-4M	1570,-	38	1	■	■		■	■				
0,1 mg	250 g	ALS 250-4A	1050,-	36	1			■	■	■				
0,1 mg	250 g	ALJ 250-4A	1140,-	36	1		■	■	■	■				
0,1 mg	250 g	ABJ 320-4	1180,-	35	1		■	■	■	■				
0,1 mg	320 g	ABT 320-4M	1720,-	38	1	■	■		■	■				



03

First-class standard for small budgets, with EC-Type Approval [M]

Features

- Metal housing: robust and sturdy
- Capacity display: A bar lights up to show how much of the weighing range is still available
- UNITS: Further weighing units see the internet
- **1** only ABJ: Automatic internal adjustment
- **2** only ABS: Adjusting program (CAL), for quick setting of the balance accuracy, external test weights at an additional price

Options

- **3** Set for density determination of liquids and solids, **KERN ABS-A02, € 650,-**
- **4** Standard printer, **KERN YKB-01N, € 240,-**
- **5** Statistics printer, **KERN YKT-01, € 820,-**
- **6** Statistics printer, **KERN YKS-01, € 390,-**
- Ioniser to neutralise electrostatic charge, **KERN YBI-01, € 820,-**
- Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, **KERN YPS-01, € 740,-**

Technical data

- Large LCD display, digit height 13 mm
- Dimensions of weighing plate \varnothing 80 mm
- Overall dimensions WxDxH 225x315x330 mm
- Weighing space: 190x155x225 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10°C / 30°C

STANDARD



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] mg	Verific. value [e] mg	Minimum load [Min] mg	Reproducibility mg	Linearity mg	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								MI KERN	€	DKD KERN	€
ABS 80-4	83	0,1	-	-	0,1	$\pm 0,2$	770,-	-	-	963-101	125,-
ABS 120-4	120	0,1	-	-	0,1	$\pm 0,2$	820,-	-	-	963-101	125,-
ABS 220-4	220	0,1	-	-	0,1	$\pm 0,2$	910,-	-	-	963-101	125,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.											
ABJ 80-4M	83	0,1	1	10	0,1	$\pm 0,2$	880,-	950-101	100,-	963-101	125,-
ABJ 120-4M	120	0,1	1	10	0,1	$\pm 0,2$	930,-	950-101	100,-	963-101	125,-
ABJ 220-4M	220	0,1	1	10	0,1	$\pm 0,2$	990,-	950-101	100,-	963-101	125,-
ABJ 320-4	320	0,1	-	-	0,1	$\pm 0,2$	1180,-	-	-	963-101	125,-

■ Price reduction



Precision and price down to a point - now with internal adjustment

Features

- Ergonomically optimised keypad for left and righthanded users
- Modern glass draft wind shield for optimal visibility of the weighing object
- Compact size, practical for small spaces
- Percentage determination: makes it possible to store a given weight value (100%) and to determine deviations from this target value
- Weighing with tolerance range, ideal for portion division, dispensing, grading
- **1** only ALJ: Automatic internal adjustment
- **2** only ALS: Adjusting program (CAL), for quick setting of the balance accuracy, external test weights at an additional price
- UNITS: Further weighing units see the internet

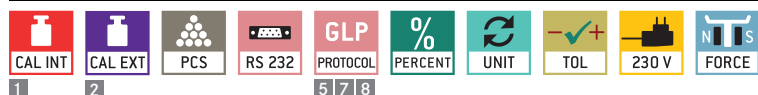
Options

- **3** Ioniser to neutralise electrostatic charge, **KERN YBI-01, € 820,-**
- **4** Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, **KERN YPS-01, € 740,-**
- **5** Standard printer, **KERN YKB-01N, € 240,-**
- **6** Label printer, **KERN YKL-01, € 650,-**
- **7** Statistics printer, **KERN YKT-01, € 820,-**
- **8** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD, digit height 17 mm
- Dimensions of weighing plate \varnothing 80 mm
- Overall dimensions (incl. draft shield): 210x340x330 mm
- Weighing space: 160x140x205 mm
- Net weight approx. 5,7 kg
- Permissible ambient temperature 5°C / 35°C

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] g	Read-out [d] mg	Reproducibility mg	Linearity mg	Min. piece weight [PW min] mg/piece	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
ALS 160-4A	160	0,1	0,1	± 0,3	0,5	950,-	963-101	125,-
ALS 250-4A	250	0,1	0,1	± 0,3	0,5	1050,-	963-101	125,-
ALJ 160-4A ■	160	0,1	0,1	± 0,3	0,5	1040,-	963-101	125,-
ALJ 250-4A ■	250	0,1	0,1	± 0,3	0,5	1140,-	963-101	125,-

■ Price reduction

■ New model



03



Compact high-end analytical balance

Features

- **1** only AEJ: Automatic internal adjustment in the case of a change in temperature > 0,5°C or time-controlled every 4 hours
- Short stabilisation time: Steady weight values within approx. 3 sec under laboratory conditions
- Ergonomically optimised keypad for left and righthanded users
- Compact housing with anti-static plastic draught shield with 3 sliding doors for easy access to the goods to be weighed
- Capacity display: A bar lights up to show how much of the weighing range is still available
- **2** only AES: Adjusting program (CAL), for quick setting of the balance accuracy,

- external test weights at an additional price
- GLP/ISO record keeping of weight values with date, time and serial number
- UNITS: Further weighing units see the internet

Options

- **3** Set for density determination of liquids and solids. The density is indicated directly on the display, **KERN AES-A01, € 460,-**
- Ioniser to neutralise electrostatic charge, **KERN YBI-01, € 820,-**
- **4** Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, **KERN YPS-01, € 740,-**

- Protective working cover standard. Can be reordered, **KERN AES-02, € 25,-**
- **5** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **6** Statistics printer, **KERN YKT-01, € 820,-**
- **7** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD, digit height 17 mm
- Dimensions of weighing plate ø 78 mm
- Overall dimensions WxDxH 213x290x314 mm
- Weighing space: 178x170x209 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 10°C / 30°C

STANDARD



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] mg	Verific. value [e] mg	Minimum load [Min] mg	Reproducibility mg	Linearity mg	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
KERN								MTI KERN	€	DKD KERN	€
AES 120-4	120	0,1	-	-	0,1	± 0,3	1190,-	-	-	963-101	125,-
AES 220-4	220	0,1	-	-	0,1	± 0,3	1240,-	-	-	963-101	125,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.											
AEJ 120-4M	120	0,1	1	10	0,1	± 0,3	1270,-	950-101	100,-	963-101	125,-
AEJ 220-4M	220	0,1	1	10	0,1	± 0,3	1320,-	950-101	100,-	963-101	125,-



The premium model with single-cell weighing system

Features

- Automatic internal adjustment in the case of a change in temperature > 0,5°C or time-controlled every 4 hours
- Dosage aid: High-stability mode and other filter settings can be selected
- Simple recipeweighing and documenting with a combined tare/print function. In addition, the mixing ingredients for the recipe are numbered automatically and printed out with their corresponding number and weight value
- Identification number: 4 numeric positions, printed on calibration protocol
- Automatic data output to the PC/printer every time the balance is steady

Options

- Protective working cover, standard, can be reordered, **KERN ABT-A02, € 25,-**
- **1** Set for density determination of liquids and solids, density is indicated directly on the display, **KERN ABT-A01, € 640,-**
- **2** Ioniser to neutralise electrostatic charge, **KERN YBI-01, € 820,-**
- **3** Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, **KERN YPS-01, € 740,-**
- **4** Standard printer, **KERN YKB-01N, € 240,-**
- **5** Statistics printer, **KERN YKT-01, € 820,-**
- Single-cell advanced technology:
 - Fully automatic manufactured weighing cell from one piece of material

- Stable temperature behaviour
- Short stabilisation time: approx. 5 sec (under laboratory conditions, for models with readout 0,1 mg)
- Shock proof construction
- High corner load performance

Technical data

- Large LCD display, digit height 14 mm
- Dimensions of weighing plate ø 80 mm
- Overall dimensions 217x356x338 mm
- Weighing space: 168x172x223 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10°C / 30°C

STANDARD



4 5

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] mg	Verific. value [e] mg	Minimum load [Min] mg	Reproducibility mg	Linearity mg	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M I KERN	€	DKD KERN	€
ABT 120-4M	120	0,1	1	10	0,1	± 0,2	1420,-	950-101	100,-	963-101	125,-
ABT 220-4M	220	0,1	1	10	0,1	± 0,2	1570,-	950-101	100,-	963-101	125,-
ABT 320-4M	320	0,1	1	10	0,1	± 0,3	1720,-	950-101	100,-	963-101	125,-
ABT 100-5M	101	0,01	1	1	0,05	± 0,15	1810,-	950-101	100,-	963-101	125,-
ABT 120-5DM	42 120	0,01 0,1	1	1	0,02 0,1	± 0,05 ± 0,2	1980,-	950-101	100,-	963-101	125,-
ABT 220-5DM	82 220	0,01 0,1	1	1	0,05 0,1	± 0,1 ± 0,2	2160,-	950-101	100,-	963-101	125,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

4 Moisture analysers

KERN Model		Page
MLS-A	Moisture analyser with 49 memories for individual drying processes	40
MLB-N	High standard in moisture analysis with graphic-assisted display	41
MLS-N	Moisture analyser with 99 memory possibilities and graphic display	42
MRS	Perfect drying with sample weight up to 124 g and many practical functions	43



Moisture analysing is an integral part of many raw and finished products and has a crucial influence on the quality of the product.

Moisture analysers are used particularly in the food industry, water resource management (sewage plants, etc.), plastics industry, agriculture and the energy industry (bio-energy plants, etc.).

Determining moisture requires a great deal of experience. Depending on the type of sample and the task involved, various drying processes are used.

KERN has concentrated on the most widely-used drying method: halogen drying, which brings many advantages:











- Even warming of the sample from above, without any risk of burning the surface of the sample

- Affordable purchase costs ensure rapid amortisation of the device
- Established temperature ranges from 30 - 230°C
- High measuring precision, up to 0.01 %
- Sufficient spare capacity, weighing range up to over 120 g
- Various drying programs (gradual drying, standard drying, stage drying, preheating stage (Boost))

The numerous memories of the KERN moisture analyser are particularly useful, as they hold information on the complete drying processes with drying parameters such as, for example, drying period, drying temperature, display settings, switch off criteria, etc... This saves an enormous amount of time and helps to achieve repeatable results.

Quick-Finder Moisture analyzers

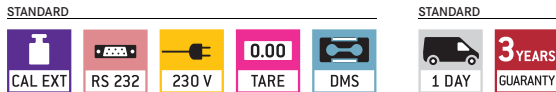
■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	 DAYS ready for shipping									
0,001 g	50 g	MLB 50-3N	1220,-	41	1			■		■				
0,001 g	50 g	MLS 50-3HA160N	1550,-	42	1			■		■				
0,001 g	65 g	MLS 65-3A	1220,-	40	1			■		■				
0,001 g	124 g	MRS 120-3	2920,-	43	1			■		■				
0,01 g	150 g	MLS 150-2A	1150,-	40	1			■		■				

Moisture analyser KERN MLS-A



Moisture analyser with 49 memories for individual drying processes



KERN	MLS 65-3A	MLS 150-2A
Readout [d]	0,001 g / 0,01 %	0,01 g / 0,05 %
Weighing range [Max]	65 g	150 g
Reproducibility, weight of sample 2 g	0,5 %	-
Reproducibility, weight of sample 10 g	0,05 %	0,2 %
Display after drying (Display can be switched over at any time)		
Moisture [%] = Weight loss (WL) from SW (startweight)	0 - 100 %	
Dry mass [%] = Residual weight (RW) from SW	100 - 0 %	
ATRO [%] [(SW - RW) : RW] · 100%	0 - 999 %	
Residual weight [g]	Absolute value in [g]	
Temperature range	50° - 160°C in steps up to 1°C	
Drying modes	<ul style="list-style-type: none"> • <input type="checkbox"/> Standard drying • <input type="checkbox"/> Drying in levels • <input type="checkbox"/> Gentle drying • <input type="checkbox"/> Pre-heat level, can be switched on 	
Switch off criteria	<ul style="list-style-type: none"> • When the set time has expired 3 min - 99 min • When the weight loss per unit of time falls below the target value (both values freely adjustable mg/sec) 	
Recall of measurement	Interval adjustable from 1 sec - 99 sec (Also in combination with KERN YKB-01N printer or PC)	
Overall dimensions WxDxH	250x360x175 mm	
Net weight	approx. 6 kg	
Price €, excl. of VAT, ex works	1220,-	1150,-

■ New model

Features

- LCD display, digit height 25 mm
- 1 Previous drying time
- 2 Current temperature
- 3 Moisture display in %
- 4 Current moisture content in %
- 5 Halogenquartz glass heater 400 W
- The last value measured remains on the display until it is replaced by a new measurement
- 6 10 sample plates included
- Table of applications: There are many practical examples in the operating instructions
- Memory for automatic sequence of 49 complete drying processes. 10 free digits for each memory
- Easy to use
- Display in German and English

Options

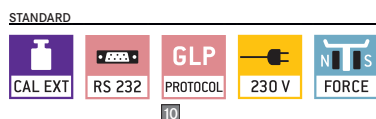
- 6 Sample plates aluminium, Ø 92 mm. Unit of 80 pieces, **KERN MLB-A01, € 45,-**
- Round fiberglass filter e.g. for samples that splash or become encrusted. Unit of 80 pieces, **KERN RH-A02, € 65,-**
- Temperature calibration set consists of measuring sensor and display device, **KERN MLS-A04, € 250,-**
- Standard printer, **KERN YKB-01N, € 240,-**

Moisture analyser KERN MLB-N



04

High standard in moisture analysis with graphic-assisted display



KERN	MLB 50-3N
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	50 g
Reproducibility, weight of sample 2 g	0,5 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Weight loss (WL) from SW (startweight)	0 - 100 %
Dry mass [%] = Residual weight (RW) from SW	100 - 0 %
ATRO [%] $[(SW - RW) : RW] \cdot 100\%$	0 - 999 %
Temperature range	50° - 160°C in steps up to 1°C
Switch off criteria	<ul style="list-style-type: none"> When the set time has expired (10 min - 9 h 50 min) When a constant weight per adjustable time unit has been reached (1 - 59 sec)
Recall of measurement	Interval can be set from 1 - 180 sec (Only when used with printer KERN YKB-01 or PC)
Overall dimensions WxDxH	210x335x156 mm
Net weight	approx. 6 kg
Price €, excl. of VAT, ex works	1220,-

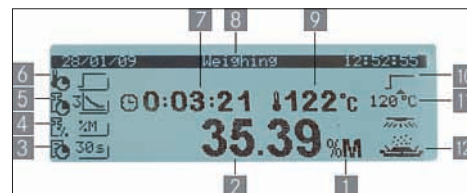
Features

- Backlit LCD display, digit height 14 mm
 - 1 Moisture display in %
 - 2 Current moisture content in %
 - 3 Printout in moisture %
 - 4 Type of drying *Standard*
 - 5 Switch off mode
 - 6 Previous drying time
 - 7 Current temperature
 - 8 Drying process active
- Halogenquartz glass heater 400 W
- The last value measured remains on the display until it is replaced by a new measurement
- 9 10 sample plates included
- Table of applications: There are many practical examples in the operating instructions

Options

- 9 Sample plates aluminium, Ø 92 mm. Unit of 80 pieces, **KERN MLB-A01, € 45,-**
- Round fiberglass filter e.g. for samples that splash or become encrusted. Unit of 80 pieces, **KERN RH-A02, € 65,-**
- Temperature calibration set consists of measuring sensor and display device, **KERN MLB-A11, € 250,-**
- Protective working cover standard, can be reordered, **KERN ALS-A02, € 20,-**
- Standard printer, **KERN YKB-01N, € 240,-**

Moisture analyser KERN MLS-N



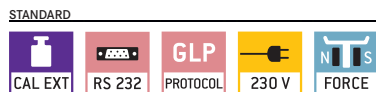
Features

- Backlit Graphic display, digit height 14 mm
 - 1 Moisture display in %
 - 2 Current moisture content in %
 - 3 Printer interval 30 sec
 - 4 Printout in moisture %
 - 5 Switch off mode
 - 6 Type of drying *Standard*
 - 7 Previous drying time
 - 8 Status bar
 - 9 Current temperature
 - 10 Type of drying *Standard*
 - 11 Target temperature
 - 12 Drying process active
- Memory for automatic sequence of 99 complete drying processes. 12 free digits for each memory
- Net weighing assistance to a defined target value [g] with adjustable tolerance range 1% - 25% of the target value
- Simple „step-by-step“ user guidance in the display in the following languages German, English, French, Italian, Spanish, Polish
- Can be connected to PC keyboard
- 13 Halogenquartz glass heater 400 W
- The last value measured remains on the display until it is replaced by a new measurement
- 14 10 sample plates included
- Table of applications: There are many practical examples in the operating instructions

Options

- 14 Sample plates aluminium, Ø 92 mm. Unit of 80 pieces, **KERN MLB-A01, € 45,-**
- Round fiberglass filter e.g. for samples that splash or become encrusted. Unit of 80 pieces, **KERN RH-A02, € 65,-**
- Temperature calibration set consists of measuring sensor and display device, **KERN MLB-A11, € 250,-**
- Protective working cover standard, can be reordered, **KERN ALS-A02, € 20,-**
- Standard printer, **KERN YKB-01N, € 240,-**

Moisture analyser with 99 memory possibilities and graphic display



	MLS 50-3HA160N
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	50 g
Reproducibility, weight of sample 2 g	0,5 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Weight loss (WL) from SW (startweight)	0 - 100 %
Dry mass [%] = Residual weight (RW) from SW	100 - 0 %
ATRO [%] [(SW - RW) : RW] · 100%	0 - 999 %
Residual weight [g]	Absolute value in [g]
Temperature range	50° - 160°C in steps up to 1°C
Drying modes	<ul style="list-style-type: none"> • <input type="checkbox"/> Standard drying • <input type="checkbox"/> Drying in levels • <input type="checkbox"/> Gentle drying • <input type="checkbox"/> Pre-heat level, can be switched on
Switch off criteria	<ul style="list-style-type: none"> • When the set time has expired (1 - 9 h 59 min) • When loss in weight per unit of time falls below the target value, both values can be adjusted ([mg/sec])
Recall of measurement	Interval adjustable from 1 sec 99 sec (Also in combination with KERN YKB-01N printer or PC)
Overall dimensions WxDxH	210x335x156 mm
Net weight	ca. 6,3 kg
Price €, excl. of VAT, ex works	1550,-

Moisture analyser KERN MRS



04

Perfect drying with sample weight up to 124 g and many practical functions



	MRS 120-3
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	124 g
Reproducibility, weight of sample 2 g	0,2 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Weight loss (WL) from SW (startweight)	0 - 100 %
Dry mass [%] = Residual weight (RW) from SW	100 - 0 %
ATRO [%] (SG : RG) · 100%	100 - 999 %
ATRO [%] [(SG-RG) : RG] · 100%	0 - 999 %
Weight loss [g] (WL)	Absolute value in [g]
Residual weight [g]	Absolute value in [g]
Temperature range	30° - 230°C in steps up to 1°C
Drying modes	<ul style="list-style-type: none"> Standard drying Gentle drying Pre-heat level, can be switched on
Switch off criteria	<ul style="list-style-type: none"> When the set time has expired (0,1 - 240 min) When constant weight has been achieved When loss in weight per unit of time falls below the target value, both values can be adjusted ([g/min] or [%/min])
Overall dimensions WxDxH	210x340x170 mm
Net weight	approx. 6.3 kg
Price €, excl. of VAT, ex works	2920,-

Features

- Halogenquartz glass heater 400 W
- Observation window over the sample, useful during initial adjustment
- The last value measured remains on the display until it is replaced by a new measurement
- 4 displays for results in % or g, heating mode, temperature and time
- Measurement recall. Interval adjustment of 0,1 - 10 min with automatic number sampling. Only in combination with YKB-01 or PC
- 2 30 sample plates included
- Memory for automatic sequence of 20 complete drying processes
- Net weighing assistance to a defined target value [g] with adjustable tolerance range
- Internal clock for date and time as standard
- Simple „step-by-step“ user guidance in the display in the following languages: German, English, French

Options

- 2 Sample plates aluminium, Ø 92 mm. Unit of 80 pieces, **KERN MLB-A01, € 45,-**
- Round fiberglass filter e.g. for samples that splash or become encrusted. Unit of 80 pieces, **KERN RH-A02, € 65,-**
- 1 Temperature calibration set consists of measuring sensor and display device, **KERN MRS-A01, € 630,-**
- Protective working cover standard, can be reordered, **KERN PR-A25, € 20,-**
- 3 Standard printer, **KERN YKB-01N, € 240,-**

5 Bench scales

KERN Model		Page
ECB ECE	Easy, mobile and economical	46
FCE	Affordable bench scale – mobile, practical, lightweight	47
FCB	Bench scale with second display on the back of the scale	48
GAB	Price-performance-winner with EC-Type Approval [M]	49
FCB-B FCB-BM	Bench scale with laboratory accuracy, also with EC-Type Approval [M]	50
FKB-A	Large bench scale up to 65 kg with large weighing plate	51
FKB FKB-M	Large, high resolution bench scale – also with EC-Type Approval [M]	52
FTB	A big hit in the industrial sector - robust and fast, with EC-Type Approval [M]	53
FKT	The future begins here - touchscreen industrial scale with enormous range of functions	54/55



Compact industrial weighing technology

Thanks to its compact dimensions, low weight, robust internal mechanism and the fact that it can be operated independent of mains power, bench scales can be used not only in a stationary situation, but also as mobile scales.

With weighing ranges between 3 kg - 60 kg, bench scales can cover a wide range of applications. Whether as a commissioning scale in the warehouse, for inventory purposes, on a production work station, in quality control, in small workshops, in service cars or in sales offices, bench scales are the first choice.

Durable stainless steel weighing plates, easy to read backlit displays, useful functions such as piece counting, manual tare - subtraction of a known container weight, or interfaces to PC and printer, all these support the user in their daily work.

Dual range and triple range scales have a particularly wide range of applications. With these scales, the total weighing range is subdivided into 2 or 3 subranges and begins with a high resolution read-out in the fine weighing range. If this range is exceeded the balance automatically switches to the higher weighing range with the lower resolution read-out.

The newest development for an even greater level of ease of use is intuitive touchscreen operation, which is being integrated into new KERN models.



KERN ECB

Easy, mobile and economical

Features

- **2** High mobility: Battery operation, compact, flat construction and low weight make this balance ideal for use in several locations (production, warehouse, dispatch department, ...)
- Particularly flat design
- Very fast display: steady weight values within 2 sec
- Simple and convenient 2-key operation
- Adjusting program CAL, external test weights at an additional price
- Optional battery operation, 6x 1.5V AA not included, operating time approx. 100 h

Options

- Rechargeable battery pack internal, operating time approx. 30 h, charging time approx. 10 h, **KERN PCB-A01, € 45,-**

Technical data

- Overall dimensions WxDxH 320x300x60 mm
- Permissible ambient temperature 5°C / 35°C

ECB:

- Backlit LCD display, digit height 14 mm
- Dimensions of weighing plate (stainless steel) WxD 320x260 mm
- Net weight approx. 1,7 kg

1 ECE:

- Large LCD display, digit height 14 mm
- Dimensions of weighing plate (plastic) WxD 320x260 mm
- Net weight approx. 1,5 kg

STANDARD



OPTION



STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
ECE 10K10	10	10	10	± 20	85,-	963-128	80,-
ECE 20K20	20	20	20	± 40	85,-	963-128	80,-
ECE 50K50	50	50	50	± 100	85,-	963-128	80,-
ECB 10K10	10	10	10	± 20	95,-	963-128	80,-
ECB 20K20	20	20	20	± 40	95,-	963-128	80,-
ECB 50K50	50	50	50	± 100	95,-	963-128	80,-

Bench scale KERN FCE



05

Affordable bench scale - mobile, practical, lightweight

Features

- Simple and convenient 2-key operation
- Short stabilisation time: Steady weight values within approx. 2 sec
- Optional battery operation, 9V Block not included. operating time approx. 12 h. AUTO-OFF function to preserve the battery.

Options

- Protective working cover over keyboard and housing, standard, can be reordered, **€ 20,-** for weighing plate size
 - A KERN FCB-A02**
 - B KERN FKB-A02**
- Rechargeable battery pack internal, AUTO-OFF function to preserve the battery, can be switched off, for models with weighing plate sizes
 - A** operating time approx. 20 h, charging time approx. 10 h, **KERN FCB-A01, € 35,-**
 - B** operating time approx. 8 h, charging time approx. 10 h, **KERN PCB-A01, € 45,-**

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of weighing plate (plastic):
 - A** 252x228 mm
 - B** 340x240 mm, see larger picture
- Overall dimensions WxDxH for models with weighing plate sizes
 - A** 270x345x106 mm
 - B** 350x390x120 mm
- Permissible ambient temperature 5°C / 35°C

STANDARD



OPTION



STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option	
								DKD	Kern Certificate
KERN									
FCE 3K1	3	1	1	± 2	2,5	A	105,-	963-127	65,-
FCE 6K2	6	2	2	± 4	2,5	A	105,-	963-128	80,-
FCE 15K5	15	5	5	± 10	2,5	A	105,-	963-128	80,-
FCE 30K10	30	10	10	± 20	2,5	A	105,-	963-128	80,-
FCE 30K10L	30	10	20	± 20	6,5	B	150,-	963-128	80,-
FCE 60K20	60	20	20	± 40	6,5	B	129,-	963-129	95,-

■ Price reduction

Bench scale KERN FCB



Bench scale with second display on the back of the balance

Features Options Technical data

- 1 Second display on the rear of the balance
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Optional battery operation, 9V Block, not included
- UNITS: Further weighing units see the internet

- Protective working cover over keyboard and housing, standard, can be reordered, **KERN FCB-A02, € 20,-**
- Rechargeable battery pack internal, operating time approx. 5 h, charging time approx. 10 h, **KERN FCB-A01, € 35,-**
- 2 Second display, **KERN YKD-A01, € 95,-**
- 3 Standard printer, **KERN YKB-01N, € 240,-**
- Label printer with printout configuration and barcode function, **KERN YKL-01, € 650,-**
- 4 Statistics printer, **KERN YKT-01, € 820,-**
- 5 Statistics printer, **KERN YKS-01, € 390,-**

- Backlit LCD display, digit height 25 mm
- Dimensions of weighing plate (stainless steel): 252x228 mm
- Overall dimensions WxDxH 270x345x106 mm
- Net weight approx. 3 kg
- Permissible ambient temperature 5°C / 35°C

1 * Only while stocks last

STANDARD

CAL EXT PCS RS 232 GLP PROTOCOL RECIPE PERCENT UNIT MOVE BATT 230 V DMS

STANDARD 1 DAY 2 YEARS GUARANTY

OPTION DKD +3 DAYS

3 4 5

Model	Weighing range [Max] kg	Read-out [d] g	Repro-ducibility g	Linearity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
FCB 3K0.1	3	0,1	0,1	0,3	0,2	185,-	963-127	65,-
FCB 8K0.1	8	0,1	0,1	0,3	0,2	210,-	963-128	80,-
FCB 6K0.5	6	0,5	0,5	1,5	1	160,-	963-128	80,-
FCB 12K1	12	1	1	3	2	150,-	963-128	80,-
FCB 30K1	30	1	1	3	2	185,-	963-128	80,-
FCB 24K2	24	2	2	6	4	150,-	963-128	80,-
FCB 15K5	15	5	5	10	10	99,-	963-128	80,-
FCB 24K10 *	24	10	10	20	20	99,-	963-128	80,-

■ Price reduction

Bench scale KERN GAB-N



05

Application examples:

- Small industrial scale for pharmacies
- Hand mixtures of tea, coffee, chocolates
- Portion division of dough, meat, fish, poultry, mixed salads in cafeterias, etc.
- Weighing of fruits on site
- High-precision industrial applications

Price-performance-winner with EC-Type Approval [M]

Features

- Compact size, practical for small spaces
- High mobility thanks to battery operation with long operating time
- Weighing with tolerance range (checkweighing): Input of an upper / lower limit value. A visual signal assists with portion division, dispensing or grading
- Totalizing of counting operations

Options

- Rechargeable battery pack internal, operating time approx. 70 h, charging time approx. 12 h. Charge condition indicator using three-colour LED, **KERN GAB-A04, € 40,-**
- **1** Standard printer, **KERN YKB-01N, € 240,-**
- **2** Label printer, **KERN YKL-01, € 650,-**
- **3** Statistics printer, **KERN YKT-01, € 820,-**
- **4** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Large LCD, digit height 24 mm
- Dimensions of weighing plate (stainless steel): 294x225 mm
- Overall dimensions WxDxH 320x330x125 mm
- Net weight approx. 3 kg
- Permissible ambient temperature 0°C / 40°C

STANDARD



OPTION



STANDARD



OPTION



FACTORY



only GAB-NM

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M III KERN	€	DKD KERN	€
GAB 6K0.05N	6	0,05	-	-	0,05	± 0,15	250,-	-	-	963-128	80,-
GAB 12K0.1N	12	0,1	-	-	0,1	± 0,3	250,-	-	-	963-128	80,-
GAB 30K0.2N	30	0,2	-	-	0,2	± 0,6	250,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.											
GAB 6K1DNM	3 6	1 2	1 2	20	1 2	± 1 ± 2	210,-	950-128	50,-	963-128	80,-
GAB 15K2DNM	6 15	2 5	2 5	40	2 5	± 2 ± 5	210,-	950-128	50,-	963-128	80,-
GAB 30K5DNM	15 30	5 10	5 10	100	5 10	± 5 ± 10	210,-	950-128	50,-	963-128	80,-



Bench scale with laboratory accuracy, also suitable for verification [M]

Features | **Options** | **Technical data**

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Percentage determination: makes it possible to store a given weight value (100%) and to determine deviations from this target value
- UNITS: Further weighing units see the internet

- Protective working cover over keyboard and housing, standard, can be reordered, **KERN FCB-A02, € 20,-**
- Rechargeable battery pack internal, operating time approx. 10 h, charging time approx. 10 h, **KERN FCB-A03B, € 40,-**
- **1** Standard printer, **KERN YKB-01N, € 240,-**
- **2** Label printer, **KERN YKL-01, € 650,-**
- **3** Statistics printer, **KERN YKT-01, € 820,-**
- **4** Statistics printer, **KERN YKS-01, € 390,-**

- Backlit LCD, digit height 18 mm
- Dimensions of weighing plate (stainless steel): 253x228 mm
- Overall dimensions WxDxH 270x345x106 mm
- Net weight approx. 3,3 kg
- Permissible ambient temperature 10°C / 40°C, Class II: 10°C / 30°C

STANDARD: CAL EXT, PCS, RS 232, GLP PROTOCOL, RECIPE, PERCENT, UNIT, MOVE, 230 V, DMS

OPTION: ACCU

STANDARD: 1 DAY

OPTION: 2 YEARS GUARANTY

FACTORY: DKD +3 DAYS, M +7 DAYS

1 3 4

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Repro-ducibility g	Linea-rity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M KERN	€	DKD KERN	€
FCB 6K0.02B	6,1	0,02	-	0,02	± 0,06	0,02	390,-	-	-	963-128	80,-
FCB 12K0.05B	12,1	0,05	-	0,05	± 0,15	0,05	370,-	-	-	963-128	80,-
FCB 12K0.1B	12,1	0,1	-	0,1	± 0,3	0,1	340,-	-	-	963-128	80,-
FCB 24K0.1B	24,1	0,1	-	0,1	± 0,3	0,1	370,-	-	-	963-128	80,-
FCB 24K0.2B	24,1	0,2	-	0,2	± 0,6	0,2	340,-	-	-	963-128	80,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

FCB 8K0.1BM	8	0,1	1	1	± 1	0,1	510,-	950-117	II	70,-	963-128	80,-
FCB 15K0.1BM	15	0,1	1	1	± 1	0,1	540,-	950-117	II	70,-	963-128	80,-
FCB 15K1BDM	7,5 15	1 2	1 2	1 2	± 1 ± 2	0,1	520,-	950-128	III	50,-	963-128	80,-

Bench scale KERN FKB-A



05

Large bench scale up to 65 kg with large weighing range

Features

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit (e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar)
- Optional battery operation, 9V Block, not included. operating time approx. 12 h
- UNITS: Further weighing units see the internet

Options

- Protective working cover over keypad, standard, can be reordered, **KERN FKB-A02, € 20,-**
- Rechargeable battery pack internal, operating time approx. 12 h, charging time approx. 10 h, **KERN PCB-A01, € 45,-**
- **1** Second display, **KERN YKD-A01, € 95,-**
- **2** Standard printer, **KERN YKB-01N, € 240,-**
- **3** Label printer with printout configuration and barcode function, **KERN YKL-01, € 650,-**
- **4** Statistics printer, **KERN YKT-01, € 820,-**
- **5** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Large backlit LCD, digit height 25 mm
- Dimensions of weighing plate (stainless steel): 340x240 mm
- Overall dimensions WxDxH 350x390x120 mm
- Net weight approx. 6,5 kg
- Permissible ambient temperature 5°C / 35°C

1 * Only while stocks last

STANDARD



OPTION



STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option	
							DKD Calibr.	Certificate
KERN							DKD	€
FKB 8K0.1A	8	0,1	0,1	± 0,3	0,2	250,-	963-128	80,-
FKB 16K0.2A *	16	0,2	0,2	± 0,6	0,4	230,-	963-128	80,-
FKB 15K0.5A	15	0,5	0,5	± 1,5	1	240,-	963-128	80,-
FKB 15K1A	15	1	1	± 2	2	210,-	963-128	80,-
FKB 30K1A	30	1	1	± 3	2	245,-	963-128	80,-
FKB 65K1A	65	1	1	± 3	2	260,-	963-129	95,-
FKB 30K2A *	30	2	2	± 6	4	199,-	963-128	80,-
FKB 60K2A *	60	2	2	± 6	4	225,-	963-129	95,-
FKB 60K5A	60	5	5	± 15	10	199,-	963-129	95,-
FKB 30K5DA	15 30	5 10	5 10	± 15 ± 30	10	179,-	963-128	80,-
FKB 60K10DA	30 60	10 20	10 20	± 30 ± 50	20	179,-	963-129	95,-

■ Price reduction



05

Large, high resolution bench scale, also with EC-Type Approval [M]

Features

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- not for FKB-M: Freely programmable weighing unit (e.g. display directly in special

units such as length of thread g/m, paper weight g/m², or similar)

- Optional battery operation, 6x 1,5V Size C not included, operating time approx. 70 h

Options

- Protective working cover over keyboard and housing, standard, can be reordered, **KERN FKB-A02, € 20,-**

- not for FKB-M: Rechargeable battery pack external, operating time approx. 25 h, charging time approx. 10 h, **KERN KS-A01, € 170,-**
- **1** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **2** Statistics printer, **KERN YKT-01, € 820,-**
- **3** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD, digit height 18 mm
- Dimensions of weighing plate (stainless steel): 350x390x120 mm
- Overall dimensions WxDxH 350x390x120 mm
- Net weight approx. 6,5 kg
- Permissible ambient temperature 10°C / 40°C, Class II: 10°C / 30°C

STANDARD



OPTION



STANDARD



OPTION



FACTORY



only FKB-M

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M KERN	€	DKD KERN	€
FKB 6K0.02	6,1	0,02	-	0,02	± 0,1	0,02	390,-	-	-	963-128	80,-
FKB 8K0.05	8,1	0,05	-	0,05	± 0,15	0,05	370,-	-	-	963-128	80,-
FKB 16K0.05	16,1	0,05	-	0,05	± 0,15	0,05	410,-	-	-	963-128	80,-
FKB 16K0.1	16,1	0,1	-	0,1	± 0,3	0,1	370,-	-	-	963-128	80,-
FKB 36K0.1	36,1	0,1	-	0,1	± 0,5	0,1	420,-	-	-	963-128	80,-
FKB 36K0.2	36,1	0,2	-	0,2	± 0,6	0,2	390,-	-	-	963-128	80,-
FKB 65K0.2	65,1	0,2	-	0,2	± 1	0,2	420,-	-	-	963-129	95,-
FKB 65K0.5	65,1	0,5	-	0,5	± 1,5	0,5	390,-	-	-	963-129	95,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

FKB 8K0.1M	8	0,1	1	1	± 1	0,1	530,-	950-117 (II)	70,-	963-128	80,-
FKB 15K0.1M	15	0,1	1	0,1	± 0,3	0,1	580,-	950-117 (II)	70,-	963-128	80,-
FKB 50K1TM	10 20 50	1 2 5	1 2 5	1 2 5	± 1 ± 2 ± 5	1	580,-	950-128 (III)	50,-	963-128	80,-
FKB 65K1M	65	1	10	1	± 2	1	580,-	950-118 (II)	100,-	963-129	95,-

Bench scale KERN FTB



A big hit in the industrial sector - robust and fast, with EC-Type Approval [M]

Features

- **IP65:** Protected against dust and water splashes, not in combination with rechargeable battery pack, Additional price **€ 230,-**, please indicate at purchase: desired model with IP add-on, e.g. **KERN FTB-15K2DMIP**
- Automatic taring when placing a container, saves time
- **UNITS:** Further weighing units see the internet

Options

- Protective working cover over keyboard and housing, standard, can be reordered for models with weighing plate sizes
 - A KERN FTB-A02-001, € 38,-**
 - B KERN FTB-A03-001, € 40,-**
- Rechargeable battery pack internal, operating time approx. 25 h, charging time approx. 6 h, not in combination with IP65,

for models with weighing plate sizes

- A KERN FTB-A05-001, € 320,-**
- B KERN FTB-A06-001, € 320,-**
- Ethernet interface, **KERN FTB-A09, € 410,-**
- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer with printout configuration and barcode function, **KERN YKL-01, € 650,-**
- Statistics printer, **KERN YKT-01, € 820,-**
- Statistics printer, **KERN YKS-01, € 390,-**

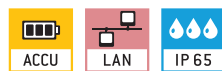
Technical data

- Backlit LCD, digit height 16 mm
- Dimensions of weighing plate (stainless steel):
 - A** 240x200 mm
 - B** 350x240 mm
- Overall dimensions WxDxH for weighing plate size
 - A** 265x335x100 mm
 - B** 360x370x115 mm
- Permissible ambient temperature -10°C / 40°C

STANDARD



FACTORY



STANDARD



OPTION



FACTORY



only FTB-M

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
KERN								M III KERN	€	DKD KERN	€
FTB 3K0.1	3	0,1	-	-	4,6	A	670,-	-	-	963-127	65,-
FTB 6K0.2	6	0,2	-	-	4,6	A	670,-	-	-	963-128	80,-
FTB 15K0.5	15	0,5	-	-	4,6	A	670,-	-	-	963-128	80,-
FTB 15K0.5L	15	0,5	-	-	8,2	B	770,-	-	-	963-128	80,-
FTB 35K1	35	1	-	-	8,2	B	770,-	-	-	963-128	80,-
FTB 60K2	60	2	-	-	8,2	B	770,-	-	-	963-129	95,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

For the verification at the factory, we need to know the full address of the location of use.

Dual-range balance (D=Dual): switches from readout d1 to readout d2 automatically

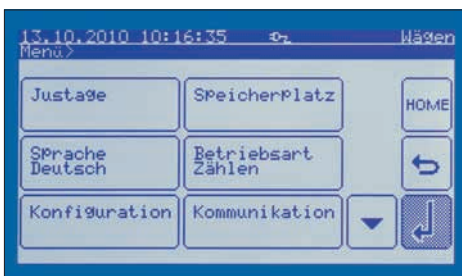
FTB 3K0.5DM	1,5 3	0,5 1	0,5 1	10	4,6	A	670,-	950-127	45,-	963-127	65,-
FTB 6K1DM	3 6	1 2	1 2	20	4,6	A	670,-	950-128	50,-	963-128	80,-
FTB 15K2DM	6 15	2 5	2 5	40	4,6	A	670,-	950-128	50,-	963-128	80,-
FTB 15K2DLM	6 15	2 5	2 5	40	8,2	B	770,-	950-128	50,-	963-128	80,-
FTB 35K5DM	15 35	5 10	5 10	100	8,2	B	770,-	950-128	50,-	963-128	80,-
FTB 60K10DM	30 60	10 20	10 20	200	8,2	B	770,-	950-129	75,-	963-129	95,-



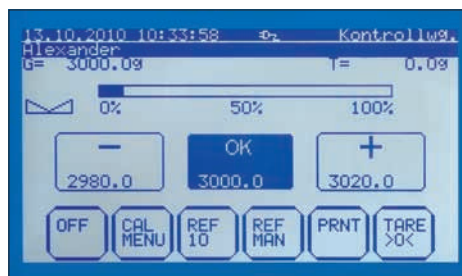
The future begins here - touchscreen industrial scale with enormous range of functions



Easy input of text and values using large keypad



Clear menu structure with the keys labelled with plain text



Weighing with tolerance range (checkweighing): a visual and audible signal helps with portion division, dispensing or grading



40 memories for each mode, for checkweighing, pre-tare, reference weight, target weight when dispensing, etc.

Bench scale KERN FKT



Features

- 1 Innovative touchscreen: Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading
- 2 Maximum transparency: All function keys are labelled with plain text which ensures that they are easily understood. The menu tree overlay in the info bar allows you to see at a glance which function is currently in use
- 3 Intuitive menu structure which allows you to use the balance to the fullest of its functions, without wasting time. This speeds up the workflow and therefore saves time and money
- 4 Control outputs (optocoupler, digital I/O) to connect relays, signal lamps, valves, etc. (35 V / 80 mA)
- 5 Only FKT-L: Optional battery operation, 6x 1,5V Size C not included, operating time approx. 20 h
- 6 Convenient recipe weighing: 5 recipes each with 7 components can be stored in plain text
- 7 UNITS: Further weighing units see the internet

Options

- Protective working cover over keyboard and housing, standard, can be reordered, **KERN FKB-A02, € 20,-**
- Rechargeable battery pack external, operating time approx. 10 h, charging time approx. 10 h, **KERN KS-A01, € 170,-**
- 4 Standard printer, **KERN YKB-01N, € 240,-**
- 5 Label printer, **KERN YKL-01, € 650,-**
- 6 Statistics printer, **KERN YKT-01, € 820,-**
- 7 Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD graphic display with digit height 18 mm, screen diagonal 5.8"
- Dimensions of weighing plate:
 - A 253x228 mm
 - B 340x240 mm, shown in detail
- Overall dimensions for models with weighing plate sizes
 - A 270x345x106 mm
 - B 350x390x120 mm
- Permissible ambient temperature 10°C / 40°C

Modes

- Weighing
- Counting
- Dispensing
- Recipe weighing
- Checkweighing
- Totalizing with daily total
- Percentage determination
- Animal weighing
- Surface weight

Functions

- Capacity display
- Automatic taring
- Dispensing assistance (subtractive, additive)
- Net/Gross display, permanently on
- Variable reference quantity
- Automatic reference optimisation
- Tare deduction numerical or from the memory unit
- Input of item or batch description, operator etc.
- Freely programmable weighing unit (e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar)
- Date/time
- Statistical function
- GLP printout
- Individual printout configuration

STANDARD



OPTION



STANDARD



OPTION



3

Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
FKT 6K0.02	6,1	0,02	0,04	± 0,1	0,02	A	680,-	963-128	80,-
FKT 6K0.02L	6,1	0,02	0,04	± 0,1	0,02	B	720,-	963-128	80,-
FKT 6K0.05	6,1	0,05	0,1	± 0,15	0,05	A	550,-	963-128	80,-
FKT 12K0.05	12,1	0,05	0,05	± 0,15	0,05	A	680,-	963-128	80,-
FKT 12K0.1	12,1	0,1	0,1	± 0,3	0,1	A	550,-	963-128	80,-
FKT 16K0.05L	16,1	0,05	0,1	± 0,25	0,05	B	720,-	963-128	80,-
FKT 16K0.1L	16,1	0,1	0,1	± 0,3	0,1	B	590,-	963-128	80,-
FKT 24K0.1	24,1	0,1	0,1	± 0,3	0,1	A	680,-	963-128	80,-
FKT 24K0.2	24,1	0,2	0,2	± 0,6	0,2	A	550,-	963-128	80,-
FKT 36K0.1L	36,1	0,1	0,2	± 0,5	0,1	B	740,-	963-128	80,-
FKT 36K0.2L	36,1	0,2	0,2	± 0,6	0,2	B	590,-	963-128	80,-
FKT 65K0.2L	65,1	0,2	0,4	± 1	0,2	B	740,-	963-129	95,-
FKT 65K0.5L	65,1	0,5	0,5	± 1,5	0,5	B	610,-	963-129	95,-

■ New model

6 Stainless steel / IP65...68 Protection

KERN Model		Page
WTB	Ideal in the food industry - easy to clean, fast display, with EC-Type Approval [M]	58
FOB	Verifiable stainless steel balance with special protection against humidity with EC-Type Approval [M]	59
FFN	Robust, space-saving bench scale, protected by stainless steel and IP67 protection	60
FVN	Testing and grading scale with EC-Type Approval [M] and highest level of protection IP68	61
NDE	Stainless steel platform scale with EC-Type Approval [M] and IP65 protection	62
SFB	Stainless steel scale with EC-Type Approval [M] and IP67 protection	63
STB	Premium stainless steel balance with EC-Type Approval [M] and IP68 platform	64
FES	High resolution stainless steel model	
FEJ	with EC-Type Approval [M] and IP65 protection	65



KERN balances - not scared of water at all !

Balances used in industrial situations are often subject to extreme stresses and strains. Water, oils, fats, varnish, dust, dirt, flour, small parts, etc. are all natural enemies of a balance. In industries such as the chemical, pharmaceutical, food, manufacturing industries, etc. balances must be able to cope with these stresses without this affecting their performance.

For use in such harsh environmental conditions, levels of protection are defined, which specify which environmental stresses a system can be exposed to in regards to the level of contact, foreign body and moisture protection, without causing damage to the unit. These levels of protection are described in the following standard: „DIN EN 60529: types of protection, housing“. The IP code usually consists of a two-digit combination, which gives the relevant level of protection, e.g. IP68. The first digit specifies the protection level for contact and protection against foreign bodies (protection against dust), the second digit is for the water and moisture protection (protection against splashes of water).

KERN stainless steel balances and balances with special IP protection will impress you with their sophisticated design coupled with high-quality material, robust construction and perfect finish. They have been specially developed for use in hygienically sensitive applications, amongst other applications. Cleaning is easy and hygienic because of the smooth upper surfaces and the materials used.











The weighing ranges of the models available with special level of protection range from 300 g - 300 kg and thereby cover the majority of applications in industry and food processing.

Extract:

KERN-Pictogram	1. Number	Specification	2. Number	Specification
	6	Dustproof	5	Designed for temporary contact with liquids. Use a damp cloth for cleaning.
	6	Dustproof	7	Designed for temporary use in wet areas. Can be cleaned with water jet. Temporary submersion is possible.
	6	Dustproof	8	Designed for continuous use in wet areas. Can be cleaned with water jet. Submersion is possible.

Quick-Finder Stainless steel / IP65...68 Protection

■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	 DAYS ready for shipping	 M	 CAL INT	 CAL EXT	 PCS	 RS 232	 INOX	 IP	 ACCU	 BATT
					For an explanation of the symbols, see the flap of the envelope									
0,1 g	17 kg	FES 17K0.1IPM	1820,-	65	1	■					■	■	□	
0,1 g	17 kg	FEJ 17K0.1IPM	2120,-	65	1	■	■			■	■	■	□	
0,1 g	33 kg	FES 33K0.1IPM	2400,-	65	1	■	■	■		■	■	■	□	
0,1 g	33 kg	FEJ 33K0.1IPM	2720,-	65	1	■	■			■	■	■	■	■
0,1/1 g	6,2/62 kg	FES 62K0.1DIPM	2420,-	65	1	■		■		■	■	■	□	
0,1/1 g	6,2/62 kg	FEJ 62K0.1DIPM	2490,-	65	1	■	■			■	■	■	□	
0,2 g	1,5 kg	WTB 1.5K0.2IP	320,-	58	7			■				■	□	
0,5 g	1,5 kg	WTB 1.5K0.5IPM	340,-	58	7	■		■				■	■	■
0,5 g	1,5 kg	FOB 1.5K0.5	160,-	59	1			■			■	■	□	
0,5 g	3 kg	WTB 3K0.5IP	320,-	58	7			■				■	■	■
0,5 g	3 kg	FFN 3K0.5IP	260,-	60	1			■			■	■		■
0,5 g	7,5 kg	FOB 7.5K0.5L	280,-	59	1			■			■		□	
1 g	1 kg	FOB 1K1M	160,-	59	1	■		■			■		□	
1 g	3 kg	WTB 3K1IPM	340,-	58	7	■		■			■	■	■	■
1 g	3 kg	FOB 3K1	160,-	59	1			■			■		□	
1 g	3 kg	NDE 3K1IP	290,-	62	1			■	■		■	■	■	■
1 g	6 kg	WTB 6K1IP	320,-	58	7			■				■	■	
1 g	6 kg	FFN 6K1IP	260,-	60	1			■			■	■		■
1 g	6 kg	FFN 6K1IP	620,-	61	1			■			■	■		■
1 g	10 kg	SFB10K1HIP	650,-	63	1			■		□	■	■	■	■
1 g	15 kg	FOB 15K1L	280,-	59	1			■			■		□	
1 g	15 kg	STB 15K1IP68	1280,-	64	7			■		□	■	■	□	
2 g	2 kg	FOB 2K2M	160,-	59	1	■		■			■		□	
2 g	6 kg	WTB 6K2IPM	340,-	58	1	■		■				■	□	
2 g	6 kg	FOB 6K2	160,-	59	1			■			■		□	
2 g	6 kg	FOB 6K2LM	250,-	59	1	■		■			■		□	
2 g	6 kg	FFN 6K2IPM	620,-	61	1	■		■			■	■		■
2 g	6 kg	NDE 6K2IP	290,-	62	1			■	■		■	■	■	■
2 g	6 kg	STB 6K2IP68M	1340,-	64	7	■		■	■	□	■	■	□	
2 g	15 kg	FFN 15K2IP	260,-	60	1			■			■	■		■
2 g	15 kg	WTB 15K2IP	320,-	58	1			■			■	■	■	■
2 g	20 kg	SFB 20K2HIP	650,-	63	1			■		□	■	■	■	■
2 g	30 kg	FOB 30K2L	280,-	59	1			■			■		□	
2 g	30 kg	STB 30K2IP68	1410,-	64	1			■	■	□	■	■	□	
5 g	5 kg	FOB 5K5M	160,-	59	1	■		■			■		□	
5 g	15 kg	WTB 15K5IPM	340,-	58	7	■		■				■	□	
5 g	15 kg	FOB 15K5LM	280,-	59	1			■			■		□	
5 g	15 kg	FFN 15K5IPM	620,-	61	1	■		■			■	■		■
5 g	15 kg	NDE 15K5IP	290,-	62	1			■	■		■	■	■	■
5 g	15 kg	SFB 15K5HIPM	670,-	63	1	■		■		□	■	■	■	■
5 g	15 kg	STB 15K5IP68M	1340,-	64	7	■		■	■	□	■	■	□	
5 g	50 kg	SFB 50K5HIP	650,-	63	1			■		□	■	■	■	■
5 g	50 kg	SFB 50K5LHIP	690,-	63	1			■		□	■	■	■	■
5 g	60 kg	STB 60K5IP68	1410,-	64	7			■	■	□	■	■	□	
10 g	30 kg	FOB 30K10LM	280,-	59	1	■		■			■		□	
10 g	30 kg	NDE 30K10IP	290,-	62	1			■	■		■	■	■	■
10 g	30 kg	NDE 30K10LIP	460,-	62	1			■	■		■	■	■	■
10 g	30 kg	SFB 30K10HIPM	670,-	63	1	■		■		□	■	■	■	■
10 g	30 kg	STB 30K10IP68M	1470,-	64	7	■		■	■	□	■	■	□	
10 g	100 kg	SFB 100K10HIP	690,-	63	1			■		□	■	■	■	■
10 g	100 kg	STB 100K10IP68	1630,-	64	7			■	■	□	■	■	□	
10 g	100 kg	STB 100K10IP68L	1920,-	64	7			■	■		■	■	□	
20 g	60 kg	NDE 60K20IP	290,-	62	1			■	■		■	■	■	■
20 g	60 kg	NDE 60K20LIP	460,-	62	1			■	■		■	■	■	■
20 g	60 kg	SFB 60K20HIPM	670,-	63	1	■		■		□	■	■	■	■
20 g	60 kg	SFB 60K20LHIPM	710,-	63	1	■		■		□	■	■	■	■
20 g	60 kg	STB 60K20IP68M	1470,-	64	7	■		■	■	□	■	■	□	
20 g	60 kg	STB 60K20IP68LM	1690,-	64	7	■		■	■		■	■	□	
20 g	200 kg	STB 200K20IP68	1920,-	64	7			■	■	□	■	■	□	
50 g	120 kg	SFB 120K50HIPM	710,-	63	1	■		■		□	■	■	■	■
50 g	150 kg	NDE 150K50IP	290,-	62	1			■	■		■	■	□	
50 g	150 kg	NDE 150K50LIP	460,-	62	1			■	■		■	■	□	
50 g	150 kg	STB 150K50IP68M	1690,-	64	7	■		■	■	□	■	■	□	
50 g	150 kg	STB 150K50IP68LM	1980,-	64	7	■		■	■		■	■	□	
100 g	300 kg	STB 300K100IP68M	1980,-	64	7	■		■	■	□	■	■	□	

06

IP protected bench scale KERN WTB



Application examples:

- Portion division of dough, meat, fish, poultry, mixed salads in cafeterias, etc.
- Weighing of ingredients and seasonings in the catering trade, Hand mixtures of tea, coffee, chocolates
- Weighing of fruits on site, Filling of canned goods
- Pre-packed goods controlling scale

Ideal in the food industry - easy to clean, fast display, with EC-Type Approval [M]

Features

- Very fast display: steady weight values within 0.8 sec
- **1** Second display on the rear of the balance
- Housing made out of ABS plastic, smooth rounded surface for easy cleaning. Suitable for the ever-increasing hygienic requirements in the food industry
- Carrying grips on the underside of the scale for easy transportation
- Weighing with tolerance range (check-weighing): Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading
- Rechargeable battery pack internal, standard, operating time approx. 50 h, charging time approx. 15 h. AUTO-OFF function to preserve the battery
- **2** IP65: Protected against dust and water splashes (only when using rechargeable battery pack)
- **3** UNITS: Further weighing units see the internet (not for WTB-M)

Technical data

- Luminescent LED display, digit height 25 mm
- Dimensions of weighing plate (stainless steel): 230x180 mm
- Overall dimensions WxDxH 310x230x127 mm
- Net weight approx. 4,8 kg
- Permissible ambient temperature -10°C / 40°C

STANDARD

CAL EXT **3**
 UNIT **1**
 TOL
 IP 65 **2**
 ACCU
 230 V
 0.00 TARE

STANDARD

7 DAYS
 2 YEARS GUARANTY

OPTION

DKD +3 DAYS

FACTORY

M +7 DAYS
 only WTB-M

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options			
						Verification		DKD Calibr. Certificate	
						KERN	€	DKD KERN	€
WTB 1.5K0.2IP	1,5	0,2	-	-	320,-	-	-	963-127	65,-
WTB 3K0.5IP	3	0,5	-	-	320,-	-	-	963-127	65,-
WTB 6K1IP	6	1	-	-	320,-	-	-	963-128	80,-
WTB 15K2IP	15	2	-	-	320,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.									
WTB 1.5K0.5IPM	1,5	0,5	0,5	10	340,-	950-127	45,-	963-127	65,-
WTB 3K1IPM	3	1	1	20	340,-	950-127	45,-	963-127	65,-
WTB 6K2IPM	6	2	2	40	340,-	950-128	50,-	963-128	80,-
WTB 15K5IPM	15	5	5	100	340,-	950-128	50,-	963-128	80,-

Stainless steel bench scale KERN FOB



Verifiable stainless steel balance with special protection against humidity with EC-Type Approval [M]

Features

- Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple to clean
- Increased protection against humidity by means of waterproof silicone sealing of the load cell, electronics and soldering joints
- High mobility: thanks to battery operation and compact, flat construction, it is suitable for use in several locations (production,

warehouse, dispatch department,...)

- Net/Gross weight: to control the consumed weighing range at the touch of a key

Options

- Protective working cover over keyboard and housing, standard, can be reordered, for models with weighing plate sizes
 - A** KERN FOB-A05, € 20,-
 - B** KERN FOB-A06, € 20,-

- Rechargeable battery pack internal, for weighing plate size

A operating time approx. 24 h, charging time approx. 8 h, **KERN FOB-A07, € 35,-**

B operating time approx. 30 h, charging time approx. 14 h, **KERN FOB-A08, € 35,-**

Technical data

- Large LCD display, digit height 25 mm
 - Dimensions of weighing plate (stainless steel):
 - A** 180x170 mm
 - B** 215x215 mm, see larger picture
 - Overall dimensions WxDxH for weighing plate size
 - A** 190x250x55 mm
 - B** 220x305x80 mm
 - Weighing plate **A** approx. 1,95 kg
Weighing plate **B** approx. 3,3 kg
 - Permissible ambient temperature 0°C / 40°C
- I** * Only while stocks last

STANDARD



STANDARD



OPTION



FACTORY



only FOB-M

Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification		DKD Calibr. Certificate	
							M III KERN	€	DKD KERN	€
FOB 1.5K0.5	1,5	0,5	0,5	± 1	A	160,-	-	-	963-127	65,-
FOB 3K1	3	1	1	± 2	A	160,-	-	-	963-127	65,-
FOB 6K2	6	2	2	± 4	A	160,-	-	-	963-128	80,-
FOB 7.5K0.5L	7,5	0,5	0,5	± 1,5	B	280,-	-	-	963-128	80,-
FOB 15K1L	15	1	1	± 3	B	280,-	-	-	963-128	80,-
FOB 30K2L	30	2	2	± 6	B	280,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.										
FOB 1K1M	1	1	1	± 2	A	160,-	950-127	45,-	963-127	65,-
FOB 2K2M	2	2	2	± 4	A	160,-	950-127	45,-	963-127	65,-
FOB 5K5M	5	5	5	± 10	A	160,-	950-127	45,-	963-127	65,-
FOB 6K2LM*	6	2	2	± 4	B	250,-	950-128	50,-	963-128	80,-
FOB 15K5LM	15	5	5	± 10	B	280,-	950-128	50,-	963-128	80,-
FOB 30K10LM	30	10	10	± 20	B	280,-	950-128	50,-	963-128	80,-

■ Price reduction

IP protected bench scale KERN FFN



Robust, space-saving bench scale, protected by stainless steel and IP67

Features

- Stainless steel housing, rust-proof and easy to clean
- Level indicator and foot screws to level the balance precisely, fitted as standard, to give the most accurate weighing results
- Carrying grips on the underside of the scale for easy transportation
- IP67 protection: high level of protection against dust and water. Ideal for harsh

environmental conditions. Designed for temporary use in wet areas

- 1 Ideal for the food industry
- 2 Ideal for the robust industry
- UNITS: Further weighing units see the internet
- Ready for use: Batteries included, 4x 1.5V D. AUTO-OFF function to preserve the batteries, can be switched off. operating time approx. 600 h

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of weighing plate (stainless steel): 230x190 mm
- Overall dimensions WxDxH 230x300x130 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0°C / 40°C

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
FFN 3K0.5IP	3	0,5	0,5	± 1	260,-	963-127	65,-
FFN 6K1IP	6	1	1	± 2	260,-	963-128	80,-
FFN 15K2IP	15	2	2	± 4	260,-	963-128	80,-

IP protected bench scale KERN FVN



PREMIUM



Testing and grading balance with EC-Type Approval [M] and highest level of protection IP68

Features

- Stainless steel housing, rust-proof and easy to clean
- Carrying grips on the underside of the scale for easy transportation
- IP68 protection: highest class of protection against dust and water. Making it very robust and durable. Ideal for harsh ambient conditions. It is even possible that the balance can be submerged in water
- Robust weighing system, can even be used in refrigerated areas
- **■** Ideal for the food industry

- **■** Waterproof
- Ideal testing and grading balance:
 - Fill-to-target function:** 99 programmable target weights. An audible and visual signal will be displayed when the target value is reached
 - Weighing with tolerance range (check-weighing):** Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading
 - Classifying:** Similar objects are automatically classified according to their weight into predetermined classes (up to 15 classes)

- Ready for use: Batteries included, 4x 1.5V D. AUTO-OFF function to preserve the batteries, can be switched off. Operating time approx. 1400 h

Technical data

- Large LCD display, digit height 30 mm
- Dimensions of weighing plate (stainless steel): 232x202 mm
- Overall dimensions WxDxH 242x292x122 mm
- Net weight approx. 3,5 kg
- Permissible ambient temperature -10°C / 40°C

STANDARD



STANDARD



OPTION

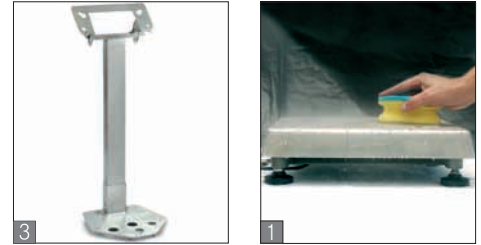


FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options			
						Verification		DKD Calibr. Certificate	
						M KERN	€	DKD KERN	€
FVN 6K1IP	6	1	-	-	620,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.									
FVN 6K2IPM	6	2	2	40	620,-	950-128	50,-	963-128	80,-
FVN 15K5IPM	15	5	5	100	620,-	950-128	50,-	963-128	80,-

Stainless steel platform scale KERN NDE



06 Stainless steel platform scale with protection against dust and water splashes IP65

Features

- **1** Scale stainless steel, so it is easy to clean
- **2** IP65 protection (only when using rechargeable battery pack and without RS 232 usage)
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Dynamic weighing: The SET key enables you to obtain a stable weight when weighing animals or if weighing conditions are unstable
- Flexible positioning of display device: mounted onto the front, free-standing, mounted to the wall
- UNITS: Further weighing units see the internet

Options

- **3** Stand to elevate display device, height of stand approx. 480 mm, only for weighing plate size **B**, **KERN NDE-A07, € 110,-**
- Protective working cover over the display device, standard, can be reordered, **KERN NDE-A01, € 20,-**
- Rechargeable battery pack internal, operating time approx. 16 h, charging time approx. 12 h. AUTO-OFF function to preserve the battery, can be reordered, **KERN NDE-A02, € 40,-**
- Wall mount for the display device, **KERN NDE-A05, € 75,-**
- Mount to fasten the display device to the platform, only for weighing plate size **B**, **KERN NDE-A06, € 95,-**

- Second display, **KERN YKD-A01, € 95,-**
- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer with printout configuration and barcode function, **KERN YKL-01, € 650,-**
- Statistics printer, **KERN YKT-01, € 820,-**
- Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions of weighing plate (stainless steel):
 - A** 316x308x100 mm, shown in detail
 - B** 522x406x125 mm
- Dimensions of display device WxDxH 225x115x45 mm
- Cable length of display device: Weighing plate **A** approx. 2 m Weighing plate **B** approx. 0,7 m
- Permissible ambient temperature 5°C / 35°C

1 Only while stocks last

STANDARD



OPTION



STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
KERN NDE 3K1IP	3	1	1	3	2	8	A	290,-	963-127	65,-
NDE 6K2IP	6	2	2	6	4	8	A	290,-	963-128	80,-
NDE 15K5IP	15	5	5	15	10	8	A	290,-	963-128	80,-
NDE 30K10IP	30	10	10	30	20	8	A	290,-	963-128	80,-
NDE 30K10LIP	30	10	10	30	20	16	B	460,-	963-128	80,-
NDE 60K20IP	60	20	20	60	40	8	A	290,-	963-129	95,-
NDE 60K20LIP	60	20	20	60	40	16	B	460,-	963-129	95,-
NDE 150K50IP	150	50	50	150	100	8	A	290,-	963-129	95,-
NDE 150K50LIP	150	50	50	150	100	16	B	460,-	963-129	95,-

Price reduction

Stainless steel platform scale KERN SFB



06

Stainless steel platform scale with EC-Type Approval [M] and IP67

Features

- Scale entirely out of stainless steel
- Load cell steel, silicone-coated
- Level indicator and foot screws to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **1** Ideal for the robust industry
- IP67 protection: high level of protection against dust and water. Ideal for harsh environmental conditions. Designed for temporary use in wet areas

- Stand to elevate display device, standard, for models with weighing plate sizes
 - A** height of stand approx. 200 mm
 - B** height of stand approx. 400 mm
- Rechargeable battery pack internal, standard, operating time up to 70 h, charging time approx. 12 h

Options

- Data interface RS 232, interface cable included, approx. 1,5 m, must be ordered at purchase, **KERN KFN-A01, € 60,-**

- **2** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **3** Statistics printer, **KERN YKT-01, € 820,-**
- **4** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of weighing plate (stainless steel):
 - A** 300x240x100 mm, shown in detail
 - B** 400x300x128 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Permissible ambient temperature -10°C / 40°C

STANDARD



OPTION



STANDARD



OPTION

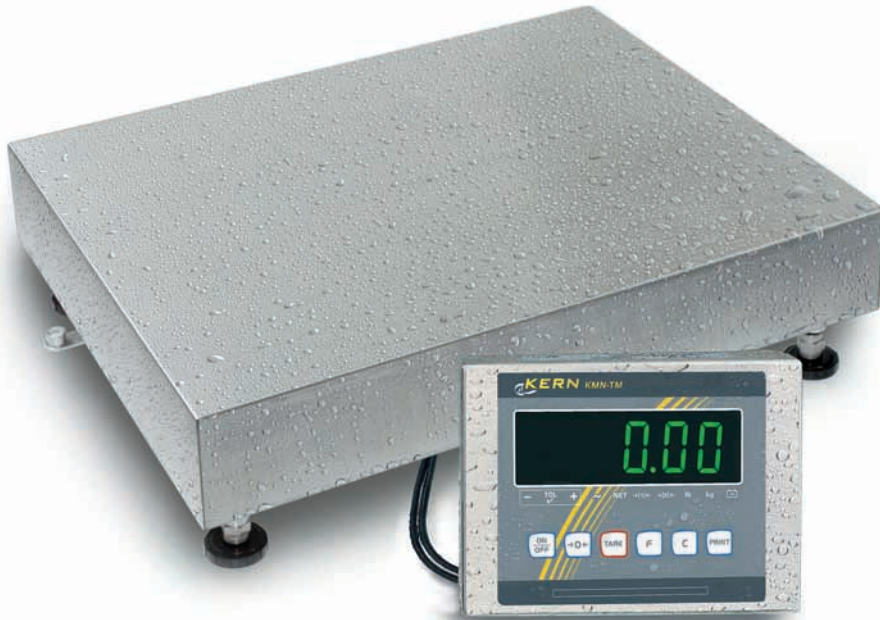


FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
									M KERN	€	DKD KERN	€
SFB 10K1HIP	10	1	-	-	1,7	9	A	650,-	-	-	963-128	80,-
SFB 20K2HIP	20	2	-	-	1,7	9	A	650,-	-	-	963-128	80,-
SFB 50K5HIP	50	5	-	-	1,7	9	A	650,-	-	-	963-128	80,-
SFB 50K5LHIP	50	5	-	-	1,7	14	B	690,-	-	-	963-128	80,-
SFB 100K10HIP	100	10	-	-	1,7	14	B	690,-	-	-	963-129	95,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.												
SFB 15K5HIPM	15	5	5	100	1,7	9	A	670,-	950-128	50,-	963-128	80,-
SFB 30K10HIPM	30	10	10	200	1,7	9	A	670,-	950-128	50,-	963-128	80,-
SFB 60K20HIPM	60	20	20	400	1,7	9	A	670,-	950-129	75,-	963-129	95,-
SFB 60K20LHIPM	60	20	20	400	1,7	14	B	710,-	950-129	75,-	963-129	95,-
SFB 120K50HIPM	120	50	50	1000	1,7	14	B	710,-	950-129	75,-	963-129	95,-

Stainless steel platform scale KERN STB



06 Stainless steel platform scale with EC-Type Approval [M] and IP68 platform

Features

- Flexible positioning of display device: free-standing, mounted to the wall
- IP68 protection: highest class of protection against dust and water. Making it very robust and durable. Ideal for harsh ambient conditions. It is even possible that the balance can be submerged in water
- Industrial quality: robust version, easy to clean. Suitable for the everincreasing hygienic requirements in the food industry
- **1** Scale is entirely out of stainless steel including the fully encapsulated load cell

Options

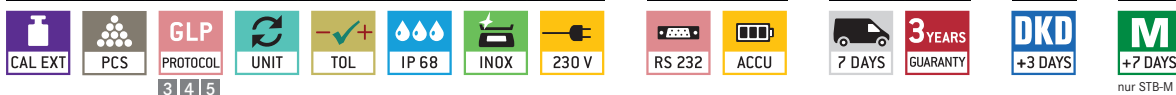
- **2** Stand to elevate display device, height of stand approx. 330 mm, **KERN STB-A11, € 135,-**, height of stand approx. 660 mm, **KERN STB-A12, € 155,-**
- Wall mount for the display device, **KERN KMN-A02, € 120,-**
- Data interface RS 232, interface cable included, must be ordered at purchase, **KERN KMN-A03, € 90,-**
- Rechargeable battery pack internal, operating time approx. 35 h, charging time

approx. 8 h, must be ordered at purchase, **KERN KMN-A01, € 200,-**

- **3** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **4** Statistics printer, **KERN YKT-01, € 820,-**
- **5** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Luminescent LED display, digit height 30 mm
- Dimensions of weighing plate (stainless steel):
 - A** 240x300x86 mm
 - B** 300x400x108 mm
 - C** 400x500x135 mm, see larger picture
 - D** 500x650x140 mm
- Dimensions of display device WxDxH 220x150x148 mm
- Permissible ambient temperature -10°C / 40°C



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
									M III KERN	€	DKD KERN	€
STB 15K1IP68	15	1	-	-	2,5	10,2	A	1280,-	-	-	963-128	80,-
STB 30K2IP68	30	2	-	-	2,5	12,6	B	1410,-	-	-	963-128	80,-
STB 60K5IP68	60	5	-	-	2,5	12,6	B	1410,-	-	-	963-129	95,-
STB 60K5IP68L	60	5	-	-	2,5	16,5	C	1630,-	-	-	963-129	95,-
STB 100K10IP68	100	10	-	-	2,5	20,6	C	1630,-	-	-	963-129	95,-
STB 100K10IP68L	100	10	-	-	2,5	30,5	D	1920,-	-	-	963-129	95,-
STB 200K20IP68	200	20	-	-	2,5	30,5	D	1920,-	-	-	963-129	95,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.												
STB 6K2IP68M	6	2	2	40	2,5	10,2	A	1340,-	950-128	50,-	963-128	80,-
STB 15K5IP68M	15	5	5	100	2,5	10,2	A	1340,-	950-128	50,-	963-128	80,-
STB 30K10IP68M	30	10	10	200	2,5	12,6	B	1470,-	950-128	50,-	963-128	80,-
STB 60K20IP68M	60	20	20	400	2,5	12,6	B	1470,-	950-129	75,-	963-129	95,-
STB 60K20IP68LM	60	20	20	400	2,5	16,5	C	1690,-	950-129	75,-	963-129	95,-
STB 150K50IP68M	150	50	50	1000	2,5	20,6	C	1690,-	950-129	75,-	963-129	95,-
STB 150K50IP68LM	150	50	50	1000	2,5	30,5	D	1980,-	950-129	75,-	963-129	95,-
STB 300K100IP68M	300	100	100	2000	2,5	30,5	D	1980,-	950-129	75,-	963-129	95,-

Stainless steel platform scale KERN FES · FEJ



High resolution stainless steel model with EC-Type Approval [M] and IP65

Features

- 1 IP65: Protected against dust and water splashes (only when using rechargeable battery pack, without RS 232 usage, without usage of relay output)
- Weighing system fully encapsulated
- Display device and weighing plate made out of stainless steel
- Weighing with tolerance range (check-weighing): Input of 2 upper and 2 lower limit values through 4 arrow keys. An audible signal assists with the portion division, dispensing or grading
- Standby function when plugged in, automatic activation of the display will occur if a change of load is made or a key is pressed

- Data interface RS 232 (bidirectional, unidirectional)
- 2 only FEJ: Automatic internal adjustment
- 3 only FES: Adjusting program (CAL), for quick setting of the balance accuracy
- UNITS: Further weighing units see the internet

Options

- Protective working cover over the display device, standard, can be reordered, **KERN FEJ-A02, € 25,-**
- 4 Stand to elevate display device, height of stand approx. 710 mm, **KERN FEJ-A05, € 120,-**

- Device for suspended weighing, **KERN FEJ-A06, € 180,-**

Technical data

- Fluorescent display bright with high contrast, digit height 18 mm
- Dimensions of weighing plate (stainless steel): 350x400 mm
- Overall dimensions WxDxH 350x520x170 mm
- Net weight approx. 17 kg
- Cable length of display device approx. 1 m
- Permissible ambient temperature 0°C / 40°C

1 * Only while stocks last

STANDARD



2

3

2 pieces

1

OPTION



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
									M II KERN	€	DKD KERN	€
FES 17K0.1IPM	17	0,1	1	5	0,1	± 0,3	0,1	1820,-	950-117	70,-	963-128	80,-
FES 33K0.1IPM	33	0,1	1	5	0,1	± 0,3	0,1	2400,-	950-117	70,-	963-128	80,-
FES 62K0.1DIPM	6,2 62	0,1 1	1	5	0,1 1	± 0,3 ± 1	0,1	2420,-	950-118	100,-	963-129	95,-
FEJ 17K0.1IPM	17	0,1	1	5	0,1	± 0,3	0,1	2120,-	950-117	70,-	963-128	80,-
FEJ 33K0.1IPM	33	0,1	1	5	0,1	± 0,3	0,1	2720,-	950-117	70,-	963-128	80,-
FEJ 62K0.1DIPM*	6,2 62	0,1 1	1	5	0,1 1	± 0,3 ± 1	0,1	2490,-	950-118	100,-	963-129	95,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

■ Price reduction

7 Price computing scales

KERN Model		Page
RXB	Entry level model for your retail business, with EC-Type Approval [M]	67
RPB	Retail scale and memories for article prices with EC-Type Approval [M]	68



Price computing scales are used anywhere where the price of goods is calculated dependent on the weight of the goods. These scales must be verified in accordance with European Directive 2009/23/EEC. Usually, these scales are in verification class III.

KERN mobile retail scales are compact in size and therefore save space on the sales counter. Thanks to the simple menu structure they are easy to use – saving time and money.

Fitted with mains, battery or rechargeable batteries as standard, price computing scales can be used in retail shops as well as on mobile sales stalls.

All price computing scales from KERN have three displays giving you all the important information at a glance:

- Weight displayed in kg (verifiable)
- Unit price in €/kg or €/100 g
- Total price in €










KERN entry level retail scales have direct access keys (PLU). The sales item with the relevant price can be stored against this PLU. In this way, frequently used sales items can be recalled as quick as a flash. This speeds up customer service and reduces waiting times.

For even more convenient solutions, the entry and maintenance of such item data can be carried out using easy-to-use, very convenient PC software and then transferred directly to the scale.

With the extensive functions for the production of check out reports, this PC software helps to take care of daily cashing up and detailed sales statistics, sorted according to items, operators, quantities, etc.

Quick-Finder Price computing scales

■ = Standard □ = Option

Read-out	Weighing range	Model	Price € excl. VAT ex works	Page	 DAYS ready for shipping									For an explanation of the symbols, see the flap of the envelope		
														KERN		
d	Max															
1 g	3000 g	RXB 3K1M	210,-	67	1	■						■				
1 g	3000 g	RXB 3K1HM	240,-	67	1	■						■				
1 g	3000 g	RPB 3K1NM	210,-	68	1	■			■			□				
1 g	3000 g	RPB 3K1HNM	240,-	68	1	■			■			□				
2 g	6000 g	RXB 6K2M	210,-	67	1	■						■				
2 g	6000 g	RXB 6K2HM	240,-	67	1	■						■				
2 g	6000 g	RPB 6K2NM	210,-	68	1	■			■			□				
2 g	6000 g	RPB 6K2HNM	240,-	68	1	■			■			□				
5 g	15 kg	RXB 15K5M	210,-	67	1	■						■				
5 g	15 kg	RXB 15K5HM	240,-	67	1	■						■				
5 g	15 kg	RPB 15K5NM	210,-	68	1	■			■			□				
5 g	15 kg	RPB 15K5HNM	240,-	68	1	■			■			□				
10 g	30 kg	RXB 30K10M	210,-	67	1	■						■				
10 g	30 kg	RXB 30K10HM	240,-	67	1	■						■				
10 g	30 kg	RPB 30K10NM	210,-	68	1	■			■			□				
10 g	30 kg	RPB 30K10HNM	240,-	68	1	■			■			□				

Price computing scale KERN RXB



Entry level model for your retail business, with EC-Type Approval [M]

Features

- 1 Elevated display backlit, revolving on column, height of stand approx. 540 mm, only RXB-HM, must be ordered at purchase
- 2 Second display on the rear of the balance (only with models without the elevated display)
- Unit price can be switched from €/kg to €/100g
- FIX key: Unit price can be stored for further weighings of the same article
- Energy management: Backlight turns off

- after 5 sec, can be switched off
- Soil-resistant construction with water channels at the edge of the housing and sealing rings over the upper housing inlets
- Rechargeable battery pack internal, standard. Operating time up to 60 h, charging time approx. 8 h. Charge condition indicator using three-colour LED

Options

- Protective working cover over keyboard and housing, standard, can be reordered, **KERN CXB-A01, € 20,-**

Technical data

- Large backlit LCD displays digit height 18 mm
- Dimensions of weighing plate (stainless steel): 300x225 mm
- Overall dimensions WxDxH 300x330x110 mm
- Net weight approx. 4,4 kg
- Permissible ambient temperature -10°C / 40°C

Application examples:

- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: In commercial trade, official verification duties exist

STANDARD	STANDARD	OPTION	FACTORY
ACCU	230 V	0.00	1 DAY
TARE	2 YEARS GUARANTY	DKD +3 DAYS	M +7 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options				
						Verification		DKD Calibr. Certificate		
						KERN	€	DKD KERN	€	
RXB 3K1M	3	1	1	20	210,-	965-227	45,-	963-127	65,-	
RXB 6K2M	6	2	2	40	210,-	965-228	50,-	963-128	80,-	
RXB 15K5M	15	5	5	100	210,-	965-228	50,-	963-128	80,-	
RXB 30K10M	30	10	10	200	210,-	965-228	50,-	963-128	80,-	
with elevated display										
RXB 3K1HM	3	1	1	20	240,-	950-127	45,-	963-127	65,-	
RXB 6K2HM	6	2	2	40	240,-	950-128	50,-	963-128	80,-	
RXB 15K5HM	15	5	5	100	240,-	965-228	50,-	963-128	80,-	
RXB 30K10HM	30	10	10	200	240,-	965-228	50,-	963-128	80,-	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

Price reduction



Application examples:

- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: In commercial trade, official verification duties exist

07

Retail scale EC-Type Approval [M] and memories for article prices

Features

- Unit price can be switched from €/kg to €/100g
- Auto-clear-key: Unit price entry is automatically set to zero when scale is unloaded
- Elevated display backlit, revolving on column, height of stand approx. 530 mm, only RPB-HM, must be ordered at purchase
- Second display on the rear of the balance, standard (only with models without the elevated display)
- Three displays for: weight (verifiable), unit price, total price

- High mobility thanks to its rechargeable batteries (optional) and low weight

Options

- Protective working cover standard, can be reordered, **KERN CPB-A01, € 35,-**
- Rechargeable battery pack internal, operating time approx. 70 h, charging time approx. 12 h (internal charging with mains adapter). SLEEP function activation time after 1, 5, 10 min, can be switched off. Charge condition indicator using three-colour LED, **KERN GAB-A04, € 40,-**

Technical data

- Large backlit LCD displays digit height 20 mm
- Dimensions of weighing plate (stainless steel): 225x275 mm
- Overall dimensions WxDxH 315x355x110 mm
- Net weight approx. 4,3 kg
- Permissible ambient temperature -10°C / 40°C

STANDARD	OPTION	STANDARD	OPTION	FACTORY
230 V	0.00 TARE	ACCU	1 DAY GUARANTY	DKD +3 DAYS
			2 YEARS GUARANTY	M +7 DAYS

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								KERN	€	KERN	€
RPB 3K1NM	3	1	1	20	1	± 2	210,-	950-127	45,-	963-127	65,-
RPB 6K2NM	6	2	2	40	2	± 4	210,-	950-128	50,-	963-128	80,-
RPB 15K5NM	15	5	5	100	5	± 10	210,-	950-128	50,-	963-128	80,-
RPB 30K10NM	30	10	10	200	10	± 20	210,-	950-128	50,-	963-128	80,-
with elevated display											
RPB 3K1HNM	3	1	1	20	1	± 2	240,-	950-127	45,-	963-127	65,-
RPB 6K2HNM	6	2	2	40	2	± 4	240,-	950-128	50,-	963-128	80,-
RPB 15K5HNM	15	5	5	100	5	± 10	240,-	950-128	50,-	963-128	80,-
RPB 30K10HNM	30	10	10	200	10	± 20	240,-	950-128	50,-	963-128	80,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

8 Counting scales / Counting systems

KERN Model	Page
CXB Entry level model in professional counting, also with EC-Type Approval [M], counting resolution of 30,000 pt	71
CPB The economical model, also with EC-Type Approval [M], counting resolution of 60,000 pt	72
CFS Professional counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 pt	73
CME Easy to use, self-explanatory counting scales, counting resolution up to 361,000 pt	74
CDE Simple counting scale for heavy loads with counting resolution of 15,000 pt	75
CXP High capacity professional model, counting resolution of 60,000 pt	76
CDS Industrial counting scale with laboratory accuracy, counting resolution up to 300,000 pt	77
FTC Premium counting scales, counting resolution up to 175,000 pt	78
CDEE Counting system with simple operation, counting resolution from 750,000 pt	79
CCS Counting the smallest parts in the largest quantities, counting resolution from 300,000 pt	80



Counting, doing it right!

In order to be able to count correctly, you must take a few parameters into account when you first start to consider selecting a counting scale.

Smallest part weight „PW min“

This is the smallest piece weight the scale will accept for piece counting and displaying piece count. In practice, however, depending on the required accuracy, using higher numbers of parts is recommended for the smallest counted parts, see „Smallest reference weight“.

Counting resolution

Describes the maximum quantity which can be counted with a counting accuracy of 1%, with the minimum variation of item weights and a sufficiently large reference quantity (20 pieces with counting resolution $\leq 60,000$ points, 50 pieces from 60,000 - 150,000 points, 100 pieces $\geq 150,000$ points). This is therefore a measure of the quality of the counting scale.

Recommended reference quantity

The weight tolerances of the pieces to be counted are the largest sources of error when counting. Therefore, at the start of every counting procedure, establish an average weight, the so-called reference weight, by placing several pieces on the scale, the so-called reference quantity.

Usually this would be:

- 5 pieces >> often sufficient
- 10 pieces >> common practise
- 20+ pieces >> with large range of piece weights

The „automatic reference optimisation“ function increases the reference quantity in levels, whereby the average piece weight is optimised step by step. This contributes considerably to the accuracy of the subsequent counting processes.

Smallest reference weight

Without automatic reference optimisation:

- 5 x PW min >> for low level requirements
- 10 x PW min >> common practise
- 20+ x PW min >> recommended value with large range of piece weights

With automatic reference optimisation:

- 2 x PW min >> generally sufficient

Which counting scale for which application?

Simple counting scale

with self-explanatory user guidance on the keyboard. The graphics control panel enables you to start working immediately, without having to study the user manual. Easy handling, value for money.

Professional counting scale

with 3 separate displays for reference weight (average weight of the pieces), total weight of all pieces and total piece count of all pieces. Integrated memories are very useful, e.g. for container weight, item number, reference weight as well as audible and visual counting assistance and an alphanumeric key pad for easy data entry.

A special tip for counting large quantities: Counting systems

The weighing ranges of bench counting scales are often not sufficient to count large quantities, units, items on pallets, etc. This is where high-performance counting systems come into their own, as these combine a high-precision reference balance with a high-capacity bulk scale.

Counting scale KERN CXB



Entry level model in professional counting, also with EC-Type Approval [M], counting resolution of 30,000 Pt

Features

- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Programmable using numerical key pad: known reference weight required reference quantity
- Audible Fill-to-target: target quantity or target weight can be programmed. When the target value is reached, a signal will sound
- Counting results memory: adds up all individual counting operations, result is shown in total weight and total pieces
- Rechargeable battery pack internal, standard. Operating time approx. 60 h, charging time approx. 8 h. Charge condition indicator on display
- Energy management: Backlight turns off after 5 sec
- Soil-resistant construction with water channels at the edge of the housing and sealing rings over the upper housing inlets
- PRE-TARE function for manual subtraction of a known container weight, which can be saved

Options

- Protective working cover over keyboard and housing, standard, can be reordered, **KERN CXB-A01, € 20,-**

Technical data

- Large backlit LCD displays digit height 18 mm
- Dimensions of weighing plate (stainless steel): 300x225 mm
- Overall dimensions WxDxH 300x330x110 mm
- Net weight approx. 4 kg
- Permissible ambient temperature -10°C / 40°C

STANDARD



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verification value [e] g	Minimum load [Min] g	Reproducibility g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Options				
								Verification		DKD Calibr. Certificate		
								MIII KERN	€	DKD KERN	€	
KERN												
CXB 3K0.2	3	0,2	-	-	0,2	0,1	220,-	-	-	963-127	65,-	
CXB 6K0.5	6	0,5	-	-	0,5	0,2	220,-	-	-	963-128	80,-	
CXB 15K1	15	1	-	-	1	0,5	220,-	-	-	963-128	80,-	
CXB 30K2	30	2	-	-	2	1	220,-	-	-	963-128	80,-	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
CXB 3K1M	3	1	1	20	1	0,1	220,-	950-127	45,-	963-127	65,-	
CXB 6K2M	6	2	2	40	2	0,2	220,-	950-128	50,-	963-128	80,-	
CXB 15K5M	15	5	5	100	5	0,5	220,-	950-128	50,-	963-128	80,-	
CXB 30K10M	30	10	10	200	10	1	220,-	950-128	50,-	963-128	80,-	

Counting scale KERN CPB



similar image

The economical model, also with EC-Type Approval [M], counting resolution of 60,000 Pt

Features

- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Programmable using numerical key pad: required reference quantity known reference weight
- Target piece input check-weighing with an audible signal
- Counting results memory: adds up all individual counting operations, result is shown in total weight and total pieces
- Audible Fill-to-target: target quantity or target weight can be programmed. When the target value is reached, a signal will sound

- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- **1** High mobility: thanks to battery operation, compact, flat construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department,...)

Options

- Rechargeable battery pack internal, operating time approx. 50 h, charging time approx. 14 h, **KERN GAB-A04, € 40,-**
- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**

Technical data

- Large LCD, digit height 20 mm
- Dimensions of weighing plate (stainless steel): 275x225 mm
- Overall dimensions WxDxH 315x355x110 mm
- Net weight approx. 4 kg
- Permissible ambient temperature 0°C / 40°C

STANDARD



OPTION



STANDARD



OPTION



FACTORY



only CPB-DM

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Options			
							Verification		DKD Calibr. Certificate	
							KERN	€	KERN	€
CPB 3K0.1	3	0,1	-	-	0,05	240,-	-	-	963-127	65,-
CPB 6K0.2	6	0,2	-	-	0,1	240,-	-	-	963-128	80,-
CPB 15K0.5	15	0,5	-	-	0,25	240,-	-	-	963-128	80,-
CPB 30K1	30	1	-	-	0,5	240,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.										
CPB 3K1M	3	1	1	20	0,05	240,-	950-127	45,-	963-127	65,-
CPB 6K2M	6	2	2	40	0,1	240,-	950-128	50,-	963-128	80,-
CPB 15K5M	15	5	5	100	0,25	240,-	950-128	50,-	963-128	80,-
CPB 30K10M	30	10	10	200	0,5	240,-	950-128	50,-	963-128	80,-

Price reduction

Counting scale KERN CFS



Professional counting balance with 100 item memories and second balance interface, counting resolution 60,000 points

Features

- Memory (PLU) for 100 items with additional text, reference weight, tare weight e.g. of a container
- Weighing with tolerance range (check-weighing), ideal for portion division, dispensing, grading
- Programmable using numerical key pad: required reference quantity, known reference weight
- Fill-to-target function: Programmable target weight. An audible and visual signal will be displayed when the target value is reached

- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- **1** Interface for second balance to construct a high-resolution counting system, e.g. with balances from the ITS, ITT series (see page 91/92) or weighing bridges (see page 109)

Options

- Rechargeable battery pack internal, operating time approx. 60 h, charging time approx. 14 h, **KERN GAB-A04, € 40,-**
- Protective working cover over keyboard and housing standard, can be reordered, **KERN CFS-A02, € 10,-**

- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**

Technical data

- Large backlit displays digit height 20 mm
- Dimensions of weighing plate WxDxH 320x230 mm
- Overall dimensions WxDxH 320x330x125 mm
- Net weight approx. 3,8 kg
- Permissible ambient temperature 0°C / 40°C

STANDARD



OPTION



STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
CFS 6K0.1	6	0,1	0,1	± 0,2	0,1	290,-	963-128	80,-
CFS 15K0.2	15	0,2	0,2	± 0,4	0,2	290,-	963-128	80,-
CFS 30K0.5	30	0,5	0,5	± 1	0,5	290,-	963-128	80,-



KERN CKE

Easy to use, self-explanatory counting balances, counting resolution up to 361,000 points

Technical data

- Two balances in one: Switching from counting mode to weighing mode at the touch of a button
- Self-explanatory graphic control panel, even without operating instructions, the counting process can be understood immediately. No learning time = reduces costs, ideal for untrained users, visualised process means that operating errors are avoided
- The 4 steps are carried out from left to right:
 - 1 Place the empty container onto the weighing plate and tare by pressing the TARE key
 - 2 Place the reference quantity for the goods to be counted into the container (5, 10, or 20 pieces)

- 3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
- 4 Pour in the goods to be counted. The number of pieces will immediately be shown on the display

CME:

- Optional battery operation, 9V Block not included. AUTO-OFF function to preserve the battery

CKE:

- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Optional battery operation, batteries 6x 1,5V Size C not included. operating time approx. 70 h



KERN CME

Options

- Rechargeable battery pack external, CME: operating time approx. 230 h, CKE: operating time approx. 50 h, charging time approx. 10 h, **KERN KS-A01, € 170,-**
- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- Statistics printer, **KERN YKT-01, € 820,-**
- Statistics printer, **KERN YKS-01, € 390,-**

CKE:

- Protective working cover over keyboard and housing standard, can be reordered, **KERN FKB-A02, € 20,-**

Technical data

CME:

- Large LCD displays digit height 15 mm
- Overall dimensions WxDxH 170x240x39 mm
- Net weight approx. 0,7 kg
- Permissible ambient temperature 5°C / 35°C

CKE:

- Large backlit LCD display digit height 18 mm
- Overall dimensions WxDxH 350x390x120 mm
- Net weight approx. 6,5 kg
- Permissible ambient temperature 10°C / 40°C

STANDARD



OPTION



STANDARD



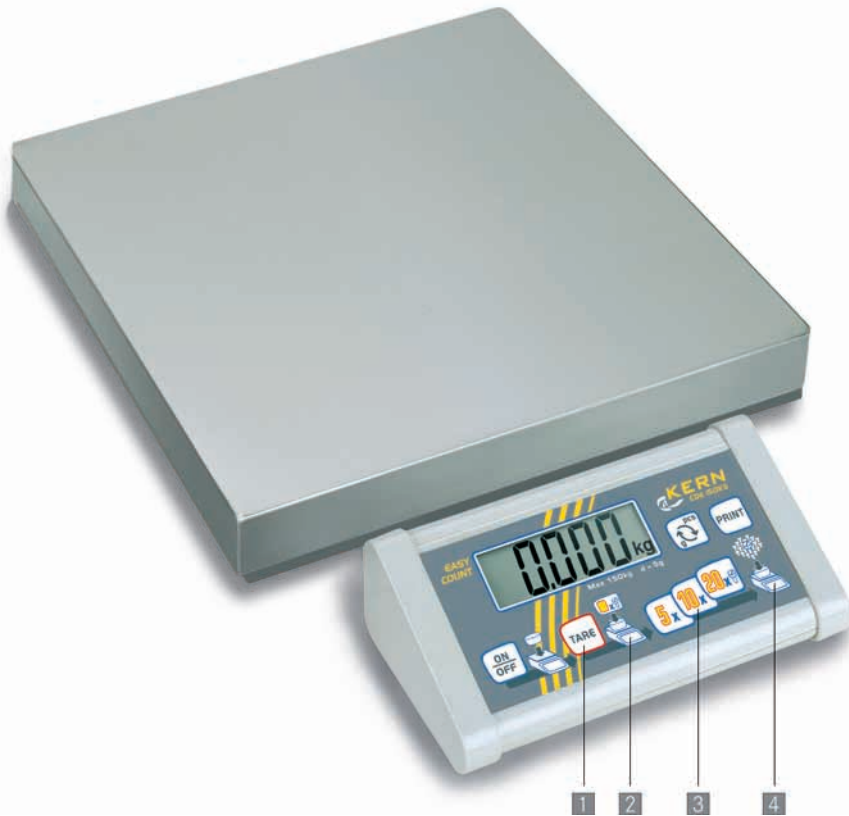
OPTION



only CKE

Model	Weighing range [Max] kg	Read-out [d] g	Min. piece weight [PW min] g/piece	Counting resolution Points	Weighing plate mm	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
CME 100-3	0,1	0,001	0,002	50.000	ø 81	165,-	963-127	65,-
CME 300-2	0,3	0,01	0,02	15.000	ø 105	140,-	963-127	65,-
CME 1000-2	1	0,01	0,02	50.000	ø 105	165,-	963-127	65,-
CME 3000-1	3	0,1	0,2	15.000	ø 150	140,-	963-127	65,-
CME 6000-1	6	0,1	0,2	30.000	ø 150	165,-	963-128	80,-
CKE 6K0.02	6,1	0,02	0,02	305.000	340x240	390,-	963-128	80,-
CKE 8K0.05	8,1	0,05	0,05	162.000	340x240	370,-	963-128	80,-
CKE 16K0.05	16,1	0,05	0,05	322.000	340x240	390,-	963-128	80,-
CKE 16K0.1	16,1	0,1	0,1	161.000	340x240	370,-	963-128	80,-
CKE 36K0.1	36,1	0,1	0,1	361.000	340x240	420,-	963-128	80,-
CKE 36K0.2	36,1	0,2	0,2	180.500	340x240	390,-	963-128	80,-
CKE 65K0.2	65,1	0,2	0,2	325.500	340x240	420,-	963-129	95,-
CKE 65K0.5	65,1	0,5	0,5	130.000	340x240	390,-	963-129	95,-

Counting scale KERN CDE



Simple counting scale with a counting resolution of 15,000 points

Features

- Two balances in one: Switching from counting mode to weighing mode at the touch of a button
- Self-explanatory graphic control panel. Even without operating instructions, the counting process can be understood immediately
No learning time = reduces costs
Ideal for untrained users
Visualised process means that operating errors are avoided
- The 4 steps are carried out from left to right:
 - 1 Place the empty container onto the weighing plate and tare by pressing the TARE key
 - 2 Place the reference quantity for the goods to be counted into the container (5, 10, or 20 pieces)

- 3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
 - 4 Pour in the goods to be counted. The number of pieces will immediately be shown on the display
 - 5 Flexible positioning of display device: mounted onto the front, free-standing, mounted to the wall (wall mount standard)
- Optional battery operation, 9V Block not included

Options

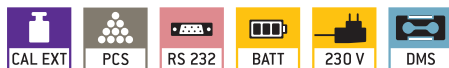
- Protective working cover display device, standard, can be reordered, **KERN CDE-A02, € 20,-**
- Rechargeable battery pack internal, operating time approx. 7 h, charging time approx. 10 h, **KERN FCB-A01, € 35,-**

- 6 Stand to elevate display device, height of stand approx. 450 mm, **KERN DE-A01, € 50,-**
- 7 Second display, **KERN YKD-A01, € 95,-**
- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer with printout configuration and barcode function, **KERN YKL-01, € 650,-**

Technical data

- Backlit LCD display, digit height 25 mm
- Dimensions of weighing plate (stainless steel):
 - A 318x308x85 mm
 - B 522x408x125 mm
- Dimensions of display device WxDxH 200x100x55 mm
- Permissible ambient temperature 5°C / 35°C
- ! Only while stocks last

STANDARD



2 ports

OPTION



STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option	
										DKD Calibr. KERN	Certificate €
CDE 35K1	35	1	1	± 3	2	2	5	A	190,-	963-128	80,-
CDE 35K1L	35	1	1	± 3	2	2	16	B	330,-	963-128	80,-
CDE 60K2	60	2	2	± 6	4	2	5	A	190,-	963-129	95,-
CDE 60K2L	60	2	2	± 6	4	2	16	B	330,-	963-129	95,-
CDE 150K5	150	5	5	± 15	10	2	5	A	190,-	963-129	95,-
CDE 150K5L	150	5	5	± 15	10	2	16	B	330,-	963-129	95,-

■ Price reduction

Counting scale KERN CXP



High capacity professional model with a resolution of 60,000 points

Features

- Two balances in one: Switching from counting mode to weighing mode at the touch of a button
- **1** Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Audible Fill-to-target: target quantity or target weight can be programmed. When the target value is reached, a signal will sound
- Programmable using numerical key pad: required reference quantity known reference weight
- PRE-TARE function for manual subtraction of a known container weight, which can be saved
- Counting results memory: adds up all individual counting operations, result is shown in total weight and total pieces
- Energy management: Backlight turns off after 5 sec, can be switched off
- **2** Display device can be detached, Cable length of display device approx. 0,4 m
- Rechargeable battery pack internal, operating time approx. 200 h without backlight, charging time approx. 8h. Charge indicator: green = charged, red = almost empty
- Memories for 10 Pre-tare or Fill-to-target values
- UNITS: Further weighing units see the internet

Options

- Protective working cover display device, standard, can be reordered, **KERN CXP-A01, € 20,-**
- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**

Technical data

- Large backlit LCD displays digit height 14 mm
- Dimensions of weighing plate (stainless steel): 400x300x100 mm
- Overall dimensions WxDxH 400x440x100 mm
- Net weight approx. 8,9 kg
- Permissible ambient temperature -10°C / 40°C

1 Only while stocks last

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
KERN CXP 75K5	75	5	5	± 10	1	440,-	963-129	95,-
KERN CXP 150K10	150	10	10	± 20	2,5	290,-	963-129	95,-

■ Price reduction

Counting scale KERN CDS



Industrial counting scale with laboratory accuracy, counting resolution up to 300,000 points

Features

- Self-explanatory graphic control panel. Even without operating instructions, the counting process can be understood immediately. No learning time = reduces costs. Ideal for untrained users, Visualised process means that operating errors are avoided
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight

Options

- Protective working cover display device, standard, can be reordered, **KERN DE-A12, € 20,-**
- Mount to fasten the display device to the platform, **KERN DE-A11, € 30,-**
- **1** Stand to elevate display device, height of stand approx. 450 mm, **KERN DE-A10, € 70,-**
- Rechargeable battery pack external, operating time approx. 25 h, charging time approx. 10 h, **KERN KS-A01, € 170,-**
- Rechargeable battery pack internal, operating time approx. 10 h, charging time approx. 10 h, **KERN KB-A01N, € 45,-**

- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **2** Statistics printer, **KERN YKT-01, € 820,-**
- **3** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD, digit height 18 mm
- Dimensions of weighing plate (stainless steel):
 - A** 308x318x75 mm
 - B** 450x350x115 mm
- Dimensions of display device WxDxH 225x115x60 mm
- Net weight for models with weighing plate sizes
 - A** approx. 7,5 kg
 - B** approx. 9,5 kg
- Permissible ambient temperature -10°C / 40°C

STANDARD



OPTION



STANDARD



OPTION

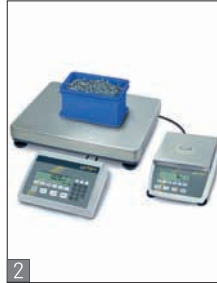


Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
KERN									
CDS 8K0.05	8,1	0,05	0,05	± 0,15	0,05	A	490,-	963-128	80,-
CDS 15K0.05	15,1	0,05	0,1	± 0,25	0,05	A	520,-	963-128	80,-
CDS 16K0.1 ■	16,1	0,1	0,1	± 0,3	0,1	A	490,-	963-128	80,-
CDS 30K0.1	30,1	0,1	0,2	± 0,5	0,1	A	590,-	963-128	80,-
CDS 30K0.1L	30,1	0,1	0,2	± 0,3	0,1	B	620,-	963-128	80,-
CDS 36K0.2L ■	36,1	0,2	0,2	± 0,6	0,2	B	620,-	963-128	80,-
CDS 60K0.2	60,1	0,2	0,4	± 0,6	0,2	B	690,-	963-129	95,-
CDS 100K0.5	101	0,5	1	± 2,5	0,5	B	690,-	963-129	95,-
CDS 150K1	151	1	2	± 5	1	B	690,-	963-129	95,-

■ Price reduction

■ New model

Counting scales KERN CWS · FTC



KERN CWS

KERN FTC

Premium counting scales suitable for verification [M], counting resolution up to 175,000 points

Features

CWS:

- Clever user guidance thanks to blinking LED: Step-by-step, supported by visual signals on the keys
- **1** Display device can be detached
- Programmable using numerical key pad: required reference quantity, known reference weight, Reference using ID number
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Audible Fill-to-target: When you are getting close to the target quantity (e.g. 20 pieces), then this is also supported by an audible signal which becomes more intense
In intermittent mode, a target quantity (e.g. 20 pcs.) can be counted several times

for repeated counting operations (e.g. 20, 40, 60, 80 pcs.)

FTC:

- Robust metal housing
- Automatic taring when placing a container, saves time
- Capacity display: A bar lights up to show how much of the weighing range is still available

Options

- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- Statistics printer, **KERN YKT-01, € 820,-**
- Statistics printer, **KERN YKS-01, € 390,-**

CWS:

- Rechargeable battery pack internal, operating time approx. 80 h, charging time approx. 15 h, **KERN CWS-A01, € 40,-**

FTC:

- Rechargeable battery pack internal, operating time approx. 30 h, charging time approx. 6 h, for models with weighing plate sizes
- **B KERN FTB-A05, € 320,-**
- **C KERN FTB-A06, € 320,-**
- **2** Interface for second balance to construct a counting system, **KERN FTC-A01, € 390,-**
- **3** Ethernet interface, **KERN FTB-A09, € 410,-**
- **2 3** Only one optional interface may be installed at any one time

Technical data

- Permissible ambient temperature -10°C / 40°C

CWS:

- Large LCD displays digit height 18 mm

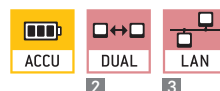
FTC:

- Backlit LCD display, digit height 18 mm

STANDARD



OPTION



STANDARD



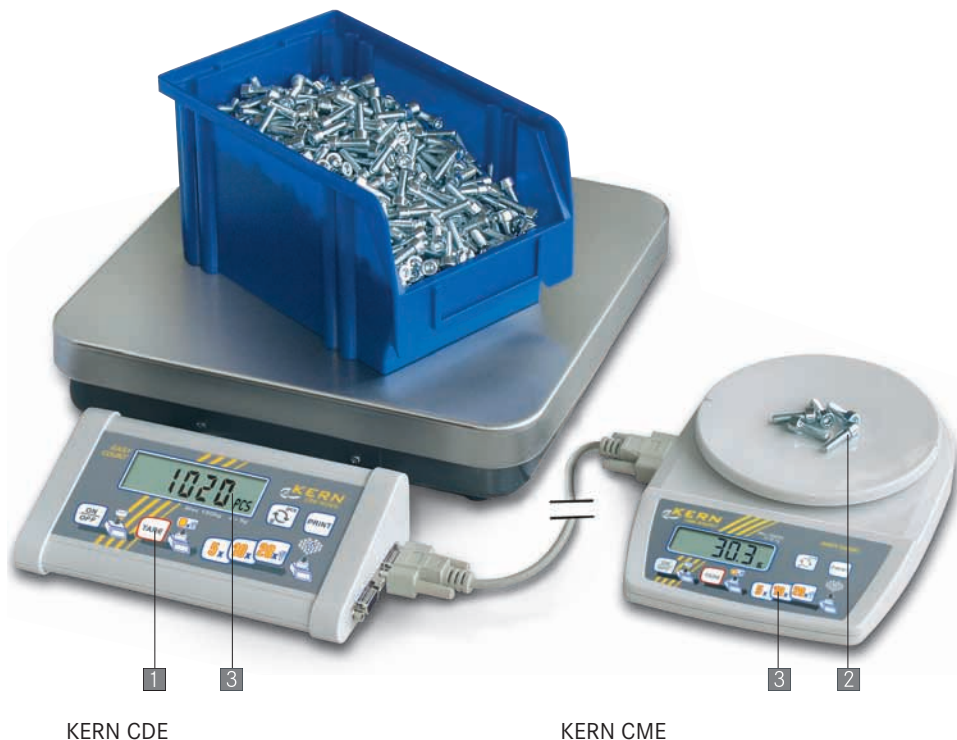
OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Min. piece weight [PW min] g/piece	Counting resolution Points	Net weight approx. kg	Overall dimensions WxDxH mm	Weighing plate mm	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
CWS 3K0.5	3	0,5	0,05	60.000	4,7	315x331x126	A 300x210	450,-	963-127	65,-
CWS 6K1	6	1	0,1	60.000	4,7	315x331x126	A 300x210	390,-	963-128	80,-
CWS 15K2	15	2	0,25	60.000	4,7	315x331x126	A 300x210	450,-	963-128	80,-
CWS 30K5	30	5	0,5	60.000	4,7	315x331x126	A 300x210	450,-	963-128	80,-
FTC 3K0.1	3	0,1	0,02	150.000	4,6	265x335x100	B 200x240	820,-	963-127	65,-
FTC 6K0.2	6	0,2	0,04	150.000	4,6	265x335x100	B 200x240	820,-	963-128	80,-
FTC 15K0.5	15	0,5	0,1	150.000	4,6	265x335x100	B 200x240	820,-	963-128	80,-
FTC 15K0.5L	15	0,5	0,1	150.000	8,2	360x370x115	C 350x240	910,-	963-128	80,-
FTC 35K1	35	1	0,2	175.000	8,2	360x370x115	C 350x240	910,-	963-128	80,-

■ Price reduction

Counting system KERN CDEE



KERN CDE

KERN CME

Self-explanatory control panel with graphics:

- **1** Place the empty container on the weighing plate of the quantity scale and tare using the TARE key
- **2** Place the reference quantity onto the reference balance (e.g. 5, 10, or 20 pieces)
- **3** Confirm the selected reference quantity by pressing the key (5, 10 or 20)
- **4** Pour the goods to be counted into the container on the quantity scale. The number of pieces will immediately be shown on the display

Counting system with simple operation with a resolution of 750,000 points

Features:

A counting system which is particularly intuitive to use, consisting of a KERN CDE bulk scale and KERN CME reference balance.

Multi-purpose use:

Each balance can be used individually. Switching from counting mode to weighing mode at the press of a button

CDE bulk scale

This is parts counting at a high degree of precision. For details see page 75, can be delivered separately.

- Battery operation possible
- Second data interface as standard, e.g. for printer connection

CME reference balance

It is ideal for accurately measuring the piece weight (= reference or count weight). The reference balance is linked to the bulk balance using the interface cable. For details see page 74, can be delivered separately.

- Battery operation possible
- KERN CDE-A01 **interface cable**, included, cable length approx. 1.5 m

Options:

CDE:

- Rechargeable battery pack, internal, operating time approx. 15 h, charging time 10 h, **KERN FCB-A01, € 35,-**
- Protective working cover as standard, can be reordered, **KERN CDE-A02, € 20,-**

CME:

- Rechargeable battery pack, external, operating time approx. 230 h, charging time 10 h, **KERN KS-A01, € 170,-**
- Standard printer with individual header data configuration, **KERN YKB-01N, € 240,-**
- Label printer with printout configuration and barcode function, **KERN YKL-01, € 650,-**

For all printers see page 125

Technical data:

CDE:

- Weighing plate
 - A** WxDxH 315x305x85 mm (Fig.)
 - B** WxDxH 522x408x125 mm

CME:

- Weighing plate
 - A** Ø 105 mm (Fig.)
 - B** Ø 150 mm

STANDARD		OPTION		STANDARD		OPTION		

Counting system (Quantity scale + Reference balance) KERN	Quantity scale CDE	Weighing range [Max] kg	Read- out [d] g	Weighing plate	Reference balance CME	Weighing range [Max] kg	Read- out [d] g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
										DKD KERN	€
CDEE 35K0.001	CDE 35K1	35	1	A	CME 100-3	100	0,001	0,002	375,-	962-128-127	145,-
CDEE 35K0.01	CDE 35K1	35	1	A	CME 300-2	300	0,01	0,02	355,-	962-128-127	145,-
CDEE 35K0.01L	CDE 35K1L	35	1	B	CME 300-2	300	0,01	0,02	470,-	962-128-127	145,-
CDEE 60K0.01	CDE 60K2	60	2	A	CME 300-2	300	0,01	0,02	355,-	962-129-127	160,-
CDEE 60K0.01L	CDE 60K2L	60	2	B	CME 300-2	300	0,01	0,02	470,-	962-129-127	160,-
CDEE 150K0.1	CDE 150K5	150	5	A	CME 3000-1	3000	0,1	0,2	330,-	962-129-127	160,-
CDEE 150K0.1L	CDE 150K5L	150	5	B	CME 3000-1	3000	0,1	0,2	470,-	962-129-127	160,-

Price reduction

* Total price = quantity scale KERN CDE, reference balance KERN CME, data interfaces, interface cable



KERN KFP

KERN CFS



Counting the smallest parts in the largest quantities, counting resolution $\geq 300,000$ points

08

Features:

This highly-accurate KERN CCS counting system, consisting of a KERN KFP bulk balance and a KERN CFS reference balance, can replace a whole range of individual counting balances.

KERN KFP bulk scale

The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN KFP

- Stainless steel platform, substructure steel lacquered
- Aluminium Single-Point load cell (1x3000 e), protected to IP65

KERN CFS reference balance

This KERN CFS professional counting balance which can be used as an individual balance can

also fulfil even the highest level of requirements for accuracy, weighing range and volume of items by connecting it to a high-capacity weighing bridge

- Large backlit LCD displays with digit height 20 mm
- Programmable using numerical keypad:
 - required reference quantity
 - known reference weight
- Memory (PLU) for 100 items with additional text
- Weighing with tolerance range (checkweighing)
- Fill-to-target function: Programmable target weight. An audible and visual signal will be displayed when the target value is reached
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight

Options:

- Reference balance can also be delivered separately, for further details see pag. 73, **KERN CFS 6K0.1, € 290,-**
 - Rechargeable battery pack internal, operating time approx. 70 h, charging time approx. 14 h, **KERN GAB-A04, € 40,-**
 - Standard printer, **KERN YKB-01N, € 240,-**
 - Label printer, **KERN YKL-01, € 650,-**
- For all printers, see page 125

Technical data:

KFP: (For details see page 109)

- Weighing plate (stainless steel):
 - A** 400x300x128 mm (Fig.)
 - B** 500x400x137 mm
 - C** 650x500x142 mm
- Connection cable approx. 1.5 m

CFS:

- Overall dimensions WxDxH 320x330x125 mm
- Weighing plate (stainless steel): 320x230 mm
- Net weight approx. 3.8 kg
- Other bulk scales on request, e.g.

- 1 Pallet scales,
- 2 Floor scales,
- 3 Drive-through scales, etc.

STANDARD



OPTION



STANDARD



OPTION



Counting system (Quantity scale + Reference balance) KERN	Quantity scale KFP	Weighing range [Max] kg	Read- out [d] g	Weighing plate	Reference balance CFS	Weighing range [Max] kg	Read- out [d] g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
										DKD KERN	€
CCS 30K0.1	KFP 30V20M	30	10	A	CFS 6K0.1	6	0,1	0,1	460,-	962-128-128	160,-
CCS 60K0.1	KFP 60V20M	60	20	A	CFS 6K0.1	6	0,1	0,1	460,-	962-129-128	175,-
CCS 60K0.1 L	KFP 60V20LM	60	20	B	CFS 6K0.1	6	0,1	0,1	510,-	962-129-128	175,-
CCS 150K0.1	KFP 150V20LM	150	50	B	CFS 6K0.1	6	0,1	0,1	510,-	962-129-128	175,-
CCS 150K0.1 L	KFP 150V20LM	150	50	C	CFS 6K0.1	6	0,1	0,1	660,-	962-129-128	175,-
CCS 300K0.1	KFP 300V20M	300	100	C	CFS 6K0.1	6	0,1	0,1	660,-	962-129-128	175,-

* **Total price** = quantity scale KERN CDE, reference balance KERN CME, data interfaces, interface cable

9 Platform scales

KERN Model	Page	
EOL	All-round platform scale with the best price performance ratio	84
EOB	The bestseller in parcel- and veterinary scales, also with XL platform	85
EOS		
DE-D	Multi functional scale with IP65 display device	86/87
IFS	The industrial scale for professionals	88
EOB-M	Affordable parcel scale with EC-Type Approval [M]	89
IFB	Robust and extremely affordable platform scale with EC-Type Approval [M]	90
DS	Industrial scale with laboratory accuracy, also with EC-Type Approval [M]	91
IKT	Touchscreen platform scale with enormous range of functions	92/93
ITX	Modular family of scales with IP65 and EC-Type Approval [M]	94-96



Platform scales - the all-rounder in industrial scales

In the KERN range there are portable, affordable entry level models for weighing post or parcels, high-quality models with a high IP rating and verification for trade applications, up to top level models with touchscreen technology for complex recipe or checkweighing applications with relay control - for each application we have the right platform scale.

The benefits of platform scales are clear for all to see:

- Weighing range from 3 kg - 300 kg
- Robust platform construction for the harshest industrial use
- Versatile, available with column
- High overload protection
- Stainless steel weighing plate, shock proof and easy to clean
- Display device can be positioned separately, e.g. wall-mounted, on a column or next to the platform. This guarantees that you always have a clear view of the display even with bulky items on the scale
- Large selection of platform sizes. From the small laboratory platform 228 x 228 mm (KERN DS) up to the pallet platform 1500 x 1250 mm (KERN BFS).

In order to fulfil the diverse requirements of our industrial customers, KERN platform scales have a large number of practical functions. From counting and recipe functions via data interfaces to connecting balances in a network or connecting with a PC or printer through right to useful battery operation for mobile use. The „Dynamic Weighing“ function is particularly useful for industrial weighing and guarantees stable results even when the location is unstable or when weighing animals - a true all-rounder.

Platform scales KERN EOL · EOE



KERN EOL



KERN EOE

Allround platform scales with the best price performance ratio

Features	Options	Technical data
<ul style="list-style-type: none"> • Simple and convenient 4-key operation • Optional battery operation <p>EOL:</p> <ul style="list-style-type: none"> • Particularly flat design • Ready for use: Block battery 9V included, operating time approx. 60 h <p>EOE:</p> <ul style="list-style-type: none"> • Wall mount for display device standard • Animal weighing program: When the animal moves during the weighing process, a stable average value is obtained by pressing the HOLD key. This value remains „frozen“ until the HOLD key is pressed again 	<p>EOL:</p> <ul style="list-style-type: none"> • Mains adapter (external) not included, can be reordered, KERN 440-902, € 15,- <p>EOE:</p> <ul style="list-style-type: none"> • Ascending ramp for models with weighing plate sizes WxD 505x505 mm, not included. WxDxH 505x507x87 mm, KERN EOE-A02, € 100,- • Non-slip rubber mat, WxD 945x505 mm, KERN EOE-A01, € 35,- • Sturdy transport case, for weighing plate sizes ≤ 315x305 mm, details see page 126, KERN MPS-A07, € 95,- 	<ul style="list-style-type: none"> • Large LCD display, digit height 25 mm • Weighing plate steel lacquered • UNITS: Further weighing units see the internet • Optional battery operation <p>EOL:</p> <ul style="list-style-type: none"> • Dimensions of display device WxDxH 160x90x32 mm • Permissible ambient temperature 5°C / 35°C <p>EOE:</p> <ul style="list-style-type: none"> • Dimensions of display device WxDxH 210x110x45 mm • Permissible ambient temperature 10°C / 35°C

* Only while stocks last

STANDARD						OPTION		STANDARD		OPTION	
						1				2	
						only EOE					

Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Cable length approx. m	Weighing plate mm	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
KERN										
EOL 60K100	60	100	100	200	1,4	2,6	293x270x35	69,-	963-129	95,-
EOL 120K200	120	200	200	400	1,4	2,6	293x270x35	69,-	963-129	95,-
EOE 6K5*	6	5	5000	10	4	1,8	315x305x65	99,-	963-128	80,-
EOE 15K10	15	10	10	20	4	1,8	315x305x65	105,-	963-128	80,-
EOE 35K20	35	20	20	40	4	1,8	315x305x65	105,-	963-128	80,-
EOE 60K50	60	50	50	100	4	1,8	315x305x65	105,-	963-129	95,-
EOE 150K100	150	100	100	200	4	1,8	315x305x65	105,-	963-129	95,-
EOE 150K100L	150	100	100	200	14	1,8	505x505x65	220,-	963-129	95,-
EOE 150K100XL	150	100	100	200	20	1,8	945x505x65	290,-	963-129	95,-
EOE 300K200L	300	200	200	400	14	1,8	505x505x65	220,-	963-129	95,-
EOE 300K200XL	300	200	200	400	20	1,8	945x505x65	290,-	963-129	95,-

Price reduction

Platform scales KERN EOB · EOS



KERN EOB



KERN EOS

The bestseller in parcel and veterinary scales, also with XL platform

Features

- Simple and convenient 4-key operation
- Wall mount for display device standard
- Animal weighing program: When the animal moves during the weighing process, a stable average value is obtained by pressing the HOLD key. This value remains „frozen“ until the HOLD key is pressed again
- UNITS: Further weighing units see the internet

EOS:

- The scale can be easily transported using 2 rollers and a handle and does not require much storage space

Options

EOB:

- Only Weighing plate **C**: Non-slip rubber mat, **KERN EOE-A01, € 35,-**
- **1** Stand to elevate display device, height of stand approx. 450 mm (for models with weighing plate sizes **D**), **KERN EOB-A01N, € 35,-**

EOS:

- Non-slip rubber mat standard, can be reordered, **KERN EOS-A01, € 35,-**
- **2** Stand to elevate display device, height of stand approx. 950 mm, **KERN MWS-A01, € 130,-**

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of display device WxDxH 210x110x45 mm
- Cable length of display device approx. 1,8 m
- Optional battery operation, 6x 1.5V AA not included, operating time approx. 60 h
- Permissible ambient temperature 10°C / 35°C

EOB:

- Dimensions of weighing plate:
 - A** 315x305x65 mm
 - B** 550x550x65 mm, see larger picture
 - C** 945x505x65 mm

EOS:

- Dimensions of weighing plate WxDxH 900x550x60 mm

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Repro-ducibility g	Linea-rity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
KERN									
EOB 6K5N	6	5	5	10	4	A	115,-	963-128	80,-
EOB 15K10N	15	10	10	20	4	A	115,-	963-128	80,-
EOB 35K20N	35	20	20	40	4	A	115,-	963-128	80,-
EOB 60K50N	60	50	50	100	4	A	115,-	963-129	95,-
EOB 60K50NL	60	50	50	100	14	B	295,-	963-129	95,-
EOB 150K100N	150	100	100	200	4	A	115,-	963-129	95,-
EOB 150K100NL	150	100	100	200	14	B	295,-	963-129	95,-
EOB 150K100NXL	150	100	100	200	22	C	340,-	963-129	95,-
EOB 300K100N	300	100	100	200	4	A	140,-	963-129	95,-
EOB 300K200NL	300	200	200	± 400	14	B	295,-	963-129	95,-
EOB 300K200NXL	300	200	200	400	21	C	340,-	963-129	95,-
EOS 150K100NXL	150	100	100	± 200	22	D	350,-	963-129	95,-
EOS 300K200NXL	300	200	200	± 400	22	D	350,-	963-129	95,-

■ Price reduction



Multi functional scale with IP65 display!

Features

- High mobility: thanks to battery operation (optional), compact, flat construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department,...)
- Flexible positioning of display device: mounted onto the front (optional), free-standing, mounted to the wall (wall mount standard)
- Display device: IP65. Protected against dust and water splashes (only when using battery or rechargeable battery pack)
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also recall the total weight of all the ingredients
- Freely programmable weighing unit (e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar)
- UNITS: Further weighing units see the internet

Platform scale KERN DE-D



Options

- **1** Second display, **KERN YKD-A01, € 95,-**
- Protective working cover over the display device, standard, can be reordered, **KERN DE-A12, € 20,-**
- Rechargeable battery pack internal, operating time approx. 15 h, charging time approx. 10 h, **KERN NDE-A02, € 40,-**
- Mount to fasten display device to the platform, **KERN DE-A11, € 30,-**
- **2** Stand to elevate display device, height of stand approx. 450 mm, **KERN DE-A10, € 70,-**

- **5** Standard printer, **KERN YKB-01N, € 240,-**
- **4** Label printer, with printout configuration and barcode function, **KERN YKL-01, € 650,-**
- **6** Statistics printer, **KERN YKT-01, € 820,-**
- **7** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions of weighing plate (stainless steel):
A 318x308x75 mm

- **B** 318x308x85 mm
- **C** 522x406x100 mm
- **D** 522x403x90 mm
- **E** 650x500x105 mm
- Dimensions of display device WxDxH 225x110x45 mm
- Optional battery operation, 9V Block not included
- Permissible ambient temperature 5°C / 35°C

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. VAT ex works €	Option DKD Calibr. Certificate	
										DKD KERN	€
Dual-range balance (D=Dual): switches from readout d1 to readout d2 automatically											
DE 6K1D	3 6	1 2	1 2	± 2 ± 4	4	1,4	4	A	160,-	963-128	80,-
DE 15K2D	6 15	2 5	2 5	± 4 ± 10	10	1,4	4	A	160,-	963-128	80,-
DE 35K5D	15 35	5 10	5 10	± 10 ± 20	10	1,4	4	A	160,-	963-128	80,-
DE 35K5DL	15 35	5 10	5 10	± 10 ± 20	10	1,4	16	D	250,-	963-128	80,-
DE 60K10D	30 60	10 20	10 20	± 20 ± 40	20	1,4	4	A	160,-	963-129	95,-
DE 60K10DL	30 60	10 20	10 20	± 20 ± 40	20	1,4	16	D	250,-	963-129	95,-
DE 150K20D	60 150	20 50	20 50	± 40 ± 100	40	1,4	4	A	160,-	963-129	95,-
DE 150K20DL	60 150	20 50	20 50	± 60 ± 150	40	1,4	16	D	250,-	963-129	95,-
DE 150K20DXL	60 150	20 50	20 50	± 40 ± 100	40	1,4	28	E	350,-	963-129	95,-
DE 300K50D	150 300	50 100	50 100	± 100 ± 200	100	1,4	16	D	250,-	963-129	95,-
DE 300K50DL	150 300	50 100	50 100	± 100 ± 200	200		28	E	350,-	963-129	95,-
High resolution readout											
DE 6K0.5A	6	0,5	0,5	± 1,5	1	1,4	4	A	180,-	963-128	80,-
DE 12K1A	12	1	1	± 3	2	1,4	4	A	180,-	963-128	80,-
DE 24K2A	24	2	2	± 6	4	1,4	4	A	180,-	963-128	80,-
DE 60K5A	60	5	5	± 15	10	1,4	4	A	180,-	963-129	95,-
DE 120K10A	120	10	10	± 30	20	1,4	4	A	180,-	963-129	95,-
DE 15K0.2D	6 15	0,2 0,5	0,2 0,5	± 0,8 ± 2	0,4	1	4	B	270,-	963-128	80,-
DE 35K0.5D	15 35	0,5 1	0,5 1	± 2 ± 4	1	1	4	B	270,-	963-128	80,-
DE 60K1D	30 60	1 2	1 2	± 4 ± 8	2	1	4	B	270,-	963-129	95,-
DE 60K1DL	30 60	1 2	1 2	± 4 ± 8	2	1,4	16	C	350,-	963-129	95,-
DE 150K2D	60 150	2 5	2 5	± 8 ± 20	4	1	4	B	270,-	963-129	95,-
DE 150K2DL	60 150	2 5	2 5	± 8 ± 20	4	1,4	16	C	350,-	963-129	95,-
DE 300K5DL	150 300	5 10	5 10	± 20 ± 40	10	1,4	16	C	350,-	963-129	95,-

Platform scale KERN IFS



The industrial scale for professionals

Features

- Industrial quality: because of its stable construction and robust design, it is ideal for continuous use in industrial applications
- Benchtop stand incl. wall mount for display device as standard
- Precise counting: The manual optimisation of reference weight gradually improves the average value of the piece weight
- Weighing with tolerance range (checkweighing): Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading
- Totalizing of counting operations

Options

- **1** Stand to elevate display device, height of stand approx. 330 mm, **KERN IFB-A01, € 40,-**, height of stand approx. 600 mm, for models with weighing plate sizes **C**, **D**, **KERN IFB-A02, € 50,-**
- Rechargeable battery pack internal, operating time approx. 30 h, charging time approx. 12 h, **KERN KFS-A01, € 30,-**
- **2** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**

Technical data

- Large backlit LCD displays, digit height 13/16 mm
- Dimensions of weighing plate (stainless steel):
 - A** 300x240x100 mm
 - B** 400x300x128 mm
 - C** 500x400x137 mm
 - D** 650x500x142 mm
- Dimensions of display device WxDxH 260x150x65 mm
- Permissible ambient temperature 0°C / 40°C

STANDARD



FACTORY



STANDARD



OPTION



2

Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Price excl. VAT ex works €	Option	
									DKD	KERN
IFS 15K0.2D	6 15	0,2 0,5	0,2 0,5	± 0,8 ± 2	1	6,5	A	290,-	963-128	80,-
IFS 30K0.2DL	12 30	0,2 0,5	0,2 0,5	± 0,8 ± 2	2	11	B	360,-	963-128	80,-
IFS 60K0.5D	30 60	0,5 1	0,5 1	± 2 ± 4	4	11	B	360,-	963-129	95,-
IFS 60K0.5DL	30 60	0,5 1	0,5 1	± 2 ± 4	4	14	C	420,-	963-129	95,-
IFS 120K1D	60 120	1 2	1 2	± 4 ± 8	8	14	C	420,-	963-129	95,-
IFS 150K2DL	60 150	2 5	2 5	± 8 ± 20	10	24	D	550,-	963-129	95,-
IFS 300K5D	150 300	5 10	5 10	± 20 ± 40	20	24	D	550,-	963-129	95,-

Platform scale KERN EOB-M




Affordable parcel scale with EC-Type Approval [M]

Features

- Simple and convenient 4-key operation
- Wall mount for display device
- Animal weighing program: When the animal moves during the weighing process, a stable average value is obtained by pressing the HOLD key. This value remains „frozen“ until the HOLD key is pressed again
- Optional battery operation, 6x 1.5V AA not included. AUTO-OFF function to preserve the battery. operating time approx. 60 h

Options

- Protective working cover over display device, standard, can be reordered, **KERN EOB-A02, € 10,-**
-  Stand to elevate display device, height of stand approx. 450 mm, **KERN EOB-A01N, € 35,-**

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of weighing plate (stainless steel): 290x270x50 mm
- Dimensions of display device WxDxH 210x110x45 mm
- Cable length of display device approx. 1,8 m
- Permissible ambient temperature 5°C / 35°C

 Only while stocks last

STANDARD



STANDARD






OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Price excl. VAT ex works €	Options			
							Verification		DKD Calibr. Certificate	
							 KERN	€	 KERN	€
EOB 6K2M	6	2	2	40	3,6	199,- 	950-128	50,-	963-128	80,-
EOB 15K5M	15	5	5	100	3,6	240,-	950-128	50,-	963-128	80,-
EOB 30K10M	30	10	10	200	3,6	240,-	950-128	50,-	963-128	80,-
EOB 60K20M	60	20	20	400	3,6	240,-	950-129	75,-	963-129	95,-
EOB 150K50M	150	50	50	1000	3,6	240,-	950-129	75,-	963-129	95,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
For the verification at the factory, we need to know the full address of the location of use.

 Price reduction

Platform scale KERN IFB



Robust and extremely affordable platform scale with EC-Type Approval [M]

Features

- Industrial quality: because of its stable construction and robust design, it is ideal for continuous use in industrial applications
- Benchtop stand incl. wall mount for display device as standard
- Dynamic weighing: at the push of a button, a stable average weight is given when the environmental conditions are unstable or when weighing animals
- Weighing with tolerance range (check-weighing): Input of an upper/lower limit

value. A visual and audible signal assists with portion division, dispensing or grading

- Totalizing of weights

Options

- **1** Stand to elevate display device, height of stand approx. 330 mm, **KERN IFB-A01, € 40,-** height of stand approx. 600 mm, for models with weighing plate sizes **C**, **D**, **KERN IFB-A02, € 50,-**
- Rechargeable battery pack internal,

operating time approx. 8 h, charging time approx. 12 h, must be ordered at purchase,

- **2** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **3** Statistics printer, **KERN YKT-01, € 820,-**
- **4** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of weighing plate (stainless steel):
 - A** 300x240x100 mm
 - B** 400x300x128 mm
 - C** 500x400x137 mm, see larger picture
 - D** 650x500x142 mm
- Dimensions of display device WxDxH 250x160x58 mm
- Permissible ambient temperature -10°C / 40°C

STANDARD

- CAL EXT
- RS 232
- GLP PROTOCOL
- TOL
- MOVE
- 230 V
- DMS

2 3 4

FACTORY

- ACCU

STANDARD

- 1 DAY
- 3 YEARS GUARANTY

OPTION

- DKD +3 DAYS

FACTORY

- M +7 DAYS

Model	Weighing range [Max] kg	Read-out [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Price excl. VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M KERN	€	DKD KERN	€
IFB 6K1DM	3 6	1 2	1 2	20	6	A	290,-	950-128	50,-	963-128	80,-
IFB 15K2DM	6 15	2 5	2 5	40	6	A	290,-	950-128	50,-	963-128	80,-
IFB 15K2DLM	6 15	2 5	2 5	40	10	B	350,-	950-128	50,-	963-128	80,-
IFB 30K5DM	15 30	5 10	5 10	100	10	B	350,-	950-128	50,-	963-128	80,-
IFB 60K10DM	30 60	10 20	10 20	200	10	B	350,-	950-129	75,-	963-129	95,-
IFB 60K10DLM	30 60	10 20	10 20	200	16	C	410,-	950-129	75,-	963-129	95,-
IFB 150K20DM	60 150	20 50	20 50	400	16	C	410,-	950-129	75,-	963-129	95,-
IFB 150K20DLM	60 150	20 50	20 50	400	22	D	530,-	950-129	75,-	963-129	95,-
IFB 300K50DM	150 300	50 100	50 100	1000	22	D	530,-	950-129	75,-	963-129	95,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

Platform scale KERN DS



- Stand to elevate display device, height of stand approx. 480 mm, **KERN DE-A10, € 70,-**
- Mount to fasten display device to the platform, **KERN DE-A11, € 30,-**
- Set for underfloor weighing, for weighing plate size **B**, **KERN DS-A01, € 200,-**
- Rechargeable battery pack external, operating time approx. 25 h, charging time approx. 10 h, **KERN KS-A01, € 170,-**
- Rechargeable battery pack internal, operating time approx. 15 h, charging time approx. 10 h, **KERN KB-A01N, € 45,-**
- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **1** Statistics printer, **KERN YKT-01, € 820,-**
- **2** Statistics printer, **KERN YKS-01, € 390,-**

Industrial scale with laboratory accuracy, also with EC-Type Approval [M]

Features

- User guidance step by step through Yes/No dialogue on the display
- Numerical subtraction of tare weight for known container weight. Useful for checking fill-levels
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight

- Particularly wide range of applications: triple range scales KERN DS-TM. For more information, see also page 44.

Options

- Protective working cover over display device, standard, can be reordered, **KERN DE-A12, € 20,-**

Technical data

- Backlit LCD display, digit height 18 mm
- Dimensions of weighing plate (stainless steel):
 - A** 228x228x70 mm
 - B** 318x308x75 mm, see larger picture
 - C** 450x350x115 mm
- Dimensions of display device WxDxH 225x115x60 mm
- Permissible ambient temperature 10°C / 40°C, Class II: 10°C / 30°C

STANDARD



OPTION



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verification value [e] g	Minimum load [Min] g	Linearity g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. VAT ex works €	Options			
											Verification		DKD Calibr. Certificate	
											M KERN	€	DKD KERN	€
DS 3K0.01S	3,1	0,01	-	0,02	± 0,05	0,01	5,1	1	A	640,-	-	-	963-127	65,-
DS 5K0.05S	5,1	0,05	-	0,05	± 0,15	0,05	5,1	1	A	530,-	-	-	963-128	80,-
DS 8K0.05	8,1	0,05	-	0,05	± 0,15	0,05	7,5	2	B	550,-	-	-	963-128	80,-
DS 10K0.1S	10,1	0,1	-	0,1	± 0,3	0,1	5,1	1	A	530,-	-	-	963-128	80,-
DS 16K0.1	16,1	0,1	-	0,1	± 0,3	0,1	7,5	2	B	550,-	-	-	963-128	80,-
DS 20K0.1	20,1	0,1	-	0,1	± 0,3	0,1	7,5	2	B	580,-	-	-	963-128	80,-
DS 30K0.1	30,1	0,1	-	0,1	± 0,3	0,1	7,5	1,5	B	610,-	-	-	963-128	80,-
DS 30K0.1L	30,1	0,1	-	0,1	± 0,3	0,1	9,5	1	C	700,-	-	-	963-128	80,-
DS 36K0.2	36,1	0,2	-	0,2	± 0,6	0,2	7,5	2	B	550,-	-	-	963-128	80,-
DS 36K0.2L	36,1	0,2	-	0,2	± 0,6	0,2	9,5	1	C	660,-	-	-	963-128	80,-
DS 60K0.2	60,1	0,2	-	0,2	± 0,6	0,2	9,5	1	C	740,-	-	-	963-129	95,-
DS 65K0.5	65,1	0,5	-	0,5	± 1,5	0,5	9,5	1	C	700,-	-	-	963-129	95,-
DS 100K0.5	101	0,5	-	0,5	± 1,5	0,5	9,5	1	C	740,-	-	-	963-129	95,-
DS 150K1	151	1	-	1	± 3	1	9,5	1	C	740,-	-	-	963-129	95,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
For the verification at the factory, we need to know the full address of the location of use.

DS 15K0.1M	15	0,1	1	1	1	0,1	7,5	1	B	750,-	950-117 (II)	70,-	963-128	80,-
DS 50K1TM	10 20 50	1 2 5	1 2 5	1 2 5	1 ± 2 5	1	9,5	1	C	810,-	950-128 (III)	50,-	963-128	80,-
DS 65K1M	65	1	10	10	10	1	9,5	1	C	810,-	950-118 (II)	100,-	963-129	95,-
DS 150K1M	150	1	10	10	10	1	9,5	1	C	890,-	950-118 (II)	100,-	963-129	95,-
DS 100K2TM	20 50 100	2 5 10	2 5 10	2 5 10	2 ± 5 10	2	9,5	1	C	890,-	950-129 (III)	75,-	963-129	95,-

■ Price reduction

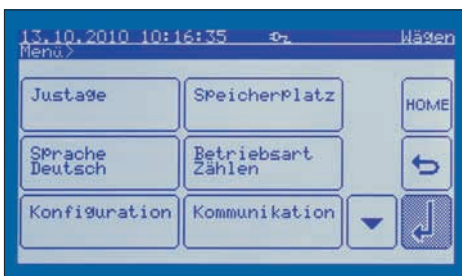


09

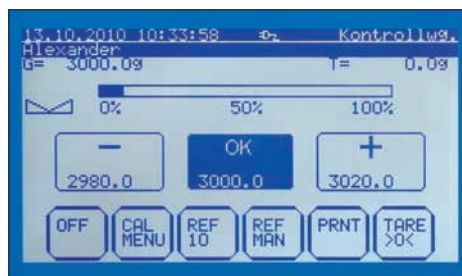
Touchscreen platform scale with enormous range of functions



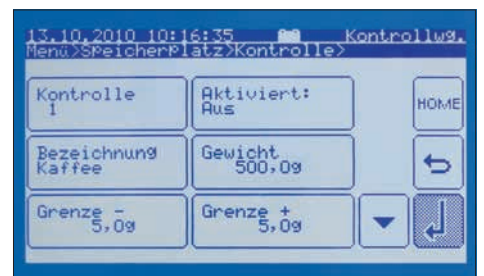
Easy input of text and values using large keypad



Clear menu structure with the keys labelled with plain text

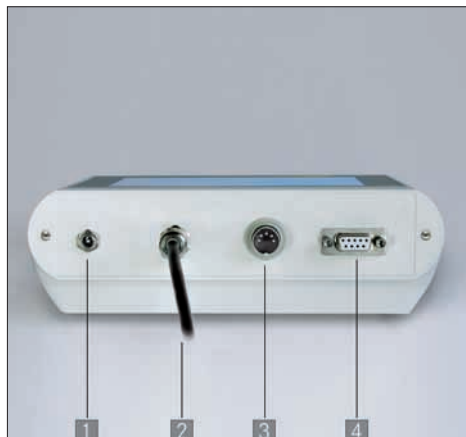


Weighing with tolerance range (checkweighing): a visual and audible signal helps with portion division, dispensing or grading



40 memories for each mode, for checkweighing, pre-tare, reference weight, target weight when dispensing, etc.

Platform scale KERN IKT



Features

- Maximum transparency: All function keys are labelled with plain text which ensures that they are easily understood. The menu tree overlay in the info bar allows you to see at a glance which function is currently in use
- Intuitive menu structure which allows you to use the balance to the fullest of its functions, without wasting time. This speeds up the workflow and therefore saves time and money
- Cable connections on the rear of the display device from left to right:
 - 1 mains connection
 - 2 connection cable to platform
 - 3 Digital I/O interface (35 V / 80 mA)
 - 4 Data interface RS 232
- Convenient recipe weighing: 5 recipes each with 7 components can be stored in plain text

Options

- Rechargeable battery pack external, operating time approx. 10 h, charging time approx. 10 h, **KERN KS-A01, € 170,-**
- Set for suspended weighing, consists of platform, bow, hook, only for models with weighing plate **B**,
- **5** Standard printer, **KERN YKB-01N, € 240,-**
- **6** Label printer, **KERN YKL-01, € 650,-**
- **7** Statistics printer, **KERN YKT-01, € 820,-**
- **8** Statistics printer, **KERN YKS-01, € 390,-**

Technical data

- Backlit LCD graphic display with digit height 18 mm, screen diagonal 5.8"
- Dimensions of weighing plate (stainless steel):
 - A** 228x228x70 mm
 - B** 315x305x75 mm
 - C** 450x350x115 mm
- Dimensions of display device WxDxH 200x155x68 mm
- Cable length of display device for weighing plate size
 - A, C** approx. 1 m
 - B** approx. 1,5 m
- Permissible ambient temperature 10°C / 40°C

Modes

- Weighing
- Counting
- Dispensing
- Recipe weighing
- Checkweighing
- Totalizing with daily total
- Percentage determination
- Animal weighing
- Surface weight

Functions

- Capacity display
- Automatic taring
- Dispensing assistance (subtractive, additive)
- Net/Gross display, permanently on
- Variable reference quantity
- Automatic reference optimisation
- Tare deduction numerical or from the memory unit
- Input of item or batch description, operator etc.
- Freely programmable weighing unit (e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar)
- Date/time
- Statistical function
- GLP printout
- Individual printout configuration

STANDARD



OPTION



STANDARD



OPTION



Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
IKT 3K0.01S	3100	0,01	0,02	± 0,05	0,01	5,1	A	890,-	963-127	65,-
IKT 8K0.05	8100	0,05	0,05	± 0,15	0,05	7,5	B	800,-	963-128	80,-
IKT 10K0.1S	10100	0,1	0,1	± 0,3	0,1	5,1	A	780,-	963-128	80,-
IKT 16K0.1	16100	0,1	0,1	± 0,3	0,1	7,5	B	800,-	963-128	80,-
IKT 30K0.1	30100	0,1	0,1	± 0,5	0,1	7,5	B	860,-	963-128	80,-
IKT 30K0.1L	30100	0,1	0,1	± 0,3	0,1	9,5	C	950,-	963-128	80,-
IKT 36K0.2	36100	0,2	0,2	± 0,6	0,2	7,5	B	800,-	963-128	80,-
IKT 36K0.2L	36100	0,2	0,2	± 0,6	0,2	9,5	C	910,-	963-128	80,-
IKT 60K0.2L	60100	0,2	0,2	± 0,6	0,2	9,5	C	990,-	963-129	95,-
IKT 65K0.5L	65100	0,5	0,5	± 1,5	0,5	9,5	C	950,-	963-129	95,-
IKT 100K0.5L	101000	0,5	0,5	± 2	0,5	9,5	C	990,-	963-129	95,-
IKT 150K1L	151000	1	1	± 3	1	9,5	C	990,-	963-129	95,-

Platform scale KERN ITB



- **1** Stand to elevate display device, height of stand approx. 330 mm, **KERN ITB-A10, € 210,-**, height of stand approx. 660 mm, **KERN ITB-A11, € 210,-**
- Rechargeable battery pack external, operating time approx. 90 h, charging time approx. 8 h, **KERN ITB-A18, € 340,-**
- Ethernet interface, must be ordered at purchase, **KERN KMB-A01, € 550,-**
- **2** Data interface RS 232, separate Y cable, **KERN ITB-A09, € 55,-**
- Standard printer, **KERN YKB-01N, € 240,-**
- Label printer with printout configuration and barcode function, **KERN YKL-01, € 650,-**
- Statistics printer, **KERN YKT-01, € 820,-**
- Statistics printer, **KERN YKS-01, € 390,-**

Quality platform scale with protection against dust and water splashes to IP65

Features

- Robust metal housing
- Steel substructure powder coated
- Automatic taring when placing a container, saves time
- Dosage aid controlled through the display

Options

- Protective working cover over the display device, standard, can be reordered, **KERN ITB-A03, € 20,-**
- Wall mount for display device, tiltable, **KERN ITB-A01, € 95,-**
- Mount to fasten the display device to the platform, **KERN ITB-A02, € 80,-**

Technical data

- Backlit LCD display, digit height 16 mm
- Dimensions of weighing plate (stainless steel): **A** 300x240x78 mm, **B** 400x300x83 mm, **C** 500x400x83 mm, **D** 650x500x110 mm, **E** 800x600x120 mm
- Dimensions of display device WxDxH 260x195x75 mm
- Permissible ambient temperature -10°C / 40°C

09

STANDARD



OPTION



FACTORY



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verification value [e] g	Minimum load [Min] g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
									M III KERN	€	DKD KERN	€
ITB 6K0.2IP	6	0,2	-	-	1	7,7	A	760,-	-	-	963-128	80,-
ITB 15K0.5IP	15	0,5	-	-	1	7,7	A	800,-	-	-	963-128	80,-
ITB 35K1IP	35	1	-	-	2	11,7	B	840,-	-	-	963-128	80,-
ITB 60K2LIP	60	2	-	-	2	22	C	1000,-	-	-	963-129	95,-
ITB 60K2XLIP	60	2	-	-	3	25	D	1300,-	-	-	963-129	95,-
ITB 150K5IP	150	5	-	-	3	22	C	1060,-	-	-	963-129	95,-
ITB 150K5LIP	150	5	-	-	3	25	D	1350,-	-	-	963-129	95,-
ITB 300K10IP	300	10	-	-	3	25	D	1430,-	-	-	963-129	95,-
ITB 600K20IP	600	20	-	-	3	45	E	1640,-	-	-	963-130	150,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

Dual-range balance (D=Dual): switches from readout d1 to readout d2 automatically

ITB 6K1DIPM	3 6	1 2	1 2	20	1	7,7	A	760,-	950-128	50,-	963-128	80,-
ITB 15K2DIPM	6 15	2 5	2 5	40	1	7,7	A	800,-	950-128	50,-	963-128	80,-
ITB 35K5DIPM	15 35	5 10	5 10	100	2	11,7	B	840,-	950-128	50,-	963-128	80,-
ITB 60K10DLIPM	30 60	10 20	10 20	200	2	22	C	1000,-	950-129	75,-	963-129	95,-
ITB 60K10DXLIPM	30 60	10 20	10 20	200	3	25	D	1300,-	950-129	75,-	963-129	95,-
ITB 150K20DIPM	60 150	20 50	20 50	400	3	22	C	1060,-	950-129	75,-	963-129	95,-
ITB 150K20DLIPM	60 150	20 50	20 50	400	3	25	D	1350,-	950-129	75,-	963-129	95,-
ITB 300K50DIPM	150 300	50 100	50 100	1000	3	25	D	1430,-	950-129	75,-	963-129	95,-
ITB 600K100DIPM	300 600	100 200	100 200	2000	3	45	E	1640,-	950-130	120,-	963-130	150,-

Platform scale KERN ITS



Quality platform scale for demanding weighing and counting applications, with protection against dust and water splashes to IP65

Features

Functions as with ITB, in addition however with:

- Capacity display: A bar lights up to show how much of the weighing range is still available
- Net/Gross weight: to control the consumed weighing range at the touch of a key

- Piece counting with fixed reference quantities (1, 2, 5, 15, 20, 25, 30, 50, 100 pieces)
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- High-resolution display (only for verified models): Readout [d] for 10 sec increased by one decimal place

Options

- only for non-verified models: Interface for second balance, must be ordered at purchase, **KERN KMS-A01, € 550,-**
- Further options, see page 94

Technical data

- Backlit LCD display, digit height 16 mm
- Dimensions of weighing plate (stainless steel):
 - A** 300x240x78 mm, **B** 400x300x83 mm
 - C** 500x400x83 mm
 - D** 650x500x110 mm
 - E** 800x600x120 mm
- Dimensions of display device WxDxH 260x195x75 mm
- Permissible ambient temperature -10°C / 40°C

STANDARD



OPTION



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verification value [e] g	Minimum load [Min] g	Min. piece weight [PW min] g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. VAT ex works €	Options			
										Verification		DKD Calibr. Certificate	
										M III KERN	€	DKD KERN	€
ITS 6K0.2IP	6	0,2	-	-	0,04	1	7,7	A	900,-	-	-	963-128	80,-
ITS 15K0.5IP	15	0,5	-	-	0,1	1	7,7	A	940,-	-	-	963-128	80,-
ITS 35K1IP	35	1	-	-	0,2	2	11,7	B	980,-	-	-	963-128	80,-
ITS 60K2LIP	60	2	-	-	0,4	2	22	C	1080,-	-	-	963-129	95,-
ITS 60K2XLIP	60	2	-	-	0,4	3	25	D	1370,-	-	-	963-129	95,-
ITS 150K5IP	150	5	-	-	1	3	22	C	1160,-	-	-	963-129	95,-
ITS 150K5LIP	150	5	-	-	1	3	25	D	1490,-	-	-	963-129	95,-
ITS 300K10IP	300	10	-	-	2	3	25	D	1600,-	-	-	963-129	95,-
ITS 600K20IP	600	20	-	-	4	3	45	E	1700,-	-	-	963-130	150,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

Dual-range balance (D=Dual): switches from readout d1 to readout d2 automatically

ITS 6K1DIPM	3 6	1 2	1 2	20	0,04	1	7,7	A	900,-	950-128	50,-	963-128	80,-
ITS 15K2DIPM	6 15	2 5	2 5	40	0,1	1	7,7	A	940,-	950-128	50,-	963-128	80,-
ITS 35K5DIPM	15 35	5 10	5 10	100	0,2	2	11,7	B	980,-	950-128	50,-	963-128	80,-
ITS 60K10DLIPM	30 60	10 20	10 20	200	0,4	2	22	C	1080,-	950-129	75,-	963-129	95,-
ITS 60K10DXLIPM	30 60	10 20	10 20	200	0,4	3	25	D	1370,-	950-129	75,-	963-129	95,-
ITS 150K20DIPM	60 150	20 50	20 50	400	1	3	22	C	1160,-	950-129	75,-	963-129	95,-
ITS 150K20DLIPM	60 150	20 50	20 50	400	1	3	25	D	1490,-	950-129	75,-	963-129	95,-
ITS 300K50DIPM	150 300	50 100	50 100	1000	2	3	25	D	1600,-	950-129	75,-	963-129	95,-
ITS 600K100DIPM	300 600	100 200	100 200	2000	4	3	45	E	1700,-	950-130	120,-	963-130	150,-

Platform scale KERN ITT



- Totalizing of weights and quantities
- 2 identification numbers, max. 40 digits each
- Date/time
- Information key for displaying individual user settings

Options

- only for non-verified models: Interface for second balance, must be ordered at purchase, **KERN KMS-A01, € 550,-**
- Digital I/O interface, **KERN ITT-A01, € 380,-**
- Further options, see page 94

Quality platform scale with wide range of functions and numerous memories, with protection against dust and water splashes to IP65

Features

Functions as with ITS, in addition however with:

- Capacity display: A bar lights up to show how much of the weighing range is still available
- Net/Gross weight: to control the consumed weighing range at the touch of a key
- Piece counting with fixed reference quantities
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight

- High-resolution display (only for verified models): Readout [d] for 10 sec increased by one decimal place
- 40 tare memory units
- 40 reference memory units
- 20 memory units for weighing with tolerance ranges (Input in weight, pieces, %)
- Tare deduction numerical or from the memory unit
- Piece counting with variable reference, numerical or from the memory unit

Technical data

- Backlit LCD display, digit height 16 mm
- Dimensions of weighing plate (stainless steel):
A 300x240x78 mm, **B** 400x300x83 mm,
C 500x400x83 mm, **D** 650x500x110 mm,
E 800x600 mm
- Dimensions of display device
WxDxH 260x195x75 mm
- Permissible ambient temperature
-10°C / 40°C



Model	Weighing range [Max] kg	Read-out [d] g	Verification value [e] g	Minimal load [Min] g	Min. piece weight [PW min] g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. VAT ex works €	Options			
										Verification		DKD Calibr. Certificate	
KERN										M III KERN	€	DKD KERN	€
ITT 6K0.2IP	6	0,2	-	-	0,04	1	7,7	A	1230,-	-	-	963-128	80,-
ITT 15K0.5IP	15	0,5	-	-	0,1	1	7,7	A	1260,-	-	-	963-128	80,-
ITT 35K1IP	35	1	-	-	0,2	2	11,7	B	1310,-	-	-	963-128	80,-
ITT 60K2LIP	60	2	-	-	0,4	2	22	C	1400,-	-	-	963-129	95,-
ITT 60K2XLIP	60	2	-	-	0,4	3	25	D	1690,-	-	-	963-129	95,-
ITT 150K5IP	150	5	-	-	1	3	22	C	1480,-	-	-	963-129	95,-
ITT 150K5LIP	150	5	-	-	1	3	22	D	1820,-	-	-	963-129	95,-
ITT 300K10IP	300	10	-	-	2	3	25	D	1930,-	-	-	963-129	95,-
ITT 600K20IP	600	20	-	-	4	3	45	E	2020,-	-	-	963-130	150,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

Dual-range balance (D=Dual): switches from readout d1 to readout d2 automatically

ITT 15K2DIPM	6 15	2 5	2 5	40	0,1	1	7,7	A	1260,-	950-128	50,-	963-128	80,-
ITT 35K5DIPM	15 35	5 10	5 10	100	0,2	2	11,7	B	1310,-	950-128	50,-	963-128	80,-
ITT 60K10DLIPM	30 60	10 20	10 20	200	0,4	2	22	C	1400,-	950-129	75,-	963-129	95,-
ITT 60K10DXLIPM	30 60	10 20	10 20	200	0,4	3	25	D	1690,-	950-129	75,-	963-129	95,-
ITT 150K20DIPM	60 150	20 50	20 50	400	1	3	22	C	1480,-	950-129	75,-	963-129	95,-
ITT 150K20DLIPM	60 150	20 50	20 50	400	1	3	25	D	1820,-	950-129	75,-	963-129	95,-
ITT 300K50DIPM	150 300	50 100	50 100	1000	2	3	25	D	1930,-	950-129	75,-	963-129	95,-
ITT 600K100DIPM	300 600	100 200	100 200	2000	4	3	45	E	2020,-	950-130	120,-	963-130	150,-

10 Floor, pallet and drive-through scales

KERN Model		Page
BOBP	Floor scale with the best price performance ratio	98
BFS	Robust floor scale with piece-counting function	99
BFB	Robust and extremely affordable floor scale with EC-Type Approval [M]	100
BTxP	Quality floor scale for high demands, with EC-Type Approval [M]	101
UOB	The bargain in pallet scales	102
UFB UFN	Robust pallet scale in two versions, suitable with EC-Type Approval [M]	103
UTEP UTNN	Mobile for any situation and for heavy loads, with EC-Type Approval [M]	104
NTEP NTNN	Extremely flat drive-through scale where driving on is no obstacle, with EC-Type Approval [M]	105



Robust assistant when weighing large loads

KERN offers a carefully coordinated range of affordable entry level models, through to practical built-in solutions up to the top level verified models made of stainless steel. The common factor is the long-lasting industrial quality as well as the high level of protection against dust and water splashes.

The setup, startup, and possible calibration of floor, pallet, and drive-through scales require specialized knowledge, which is the basis for a successful sale. Please ask for our „Floor scale info sheet“.

Quick-Finder Floor, pallet and drive-through scales

■ = Standard □ = Option

Read-out	Weighing range	Model	Price € excl. VAT ex works	Page	DAYS ready for shipping	M	CAL INT	CAL EXT	PCS	RS 232	INOX	IP	ACCU	BATT
d	Max	KERN				For an explanation of the symbols, see the flap of the envelope								
200 g	300 kg	BOBP 300K200	750,-	98	2			■						□
200 g	600 kg	BFS 600K200S	1080,-	99	2			■	■	■			□	
200 g	600 kg	BFB 600K200SM	1130,-	100	2	■		■		■			□	
200 g	600 kg	BTEP 600K200SM	2190,-	101	8	■		■	■	■				□
200 g	600 kg	UOB 600K200	850,-	102	2			■						□
200 g	600 kg	UFB 600K200M	950,-	103	2	■		■		■		■	□	
200 g	600 kg	UFN 600K200IPM	1490,-	103	2	■		■		■	■	■	■	
200 g	600 kg	UTEP 600K200M	1420,-	104	7	■		■	■	■		■	□	
200 g	600 kg	UTNN 600K200IPM	2320,-	104	7	■		■	■	■		■	□	
200 g	600 kg	NTEP 600K200M	2030,-	105	7	■		■	■	■		■	□	
200 g	600 kg	NTNN 600K200M	3120,-	105	7	■		■	■	■		■	□	
500 g	750 kg	BOBP 750K500	750,-	98	2			■		■				□
500 g	1,5 t	BFS 1.5T0.5S	1080,-	99	2			■	■	■			□	
500 g	1,5 t	BFB 1.5T0.5SM	1130,-	100	2	■		■		■			□	
500 g	1,5 t	UFB 1.5T0.5M	950,-	103	2	■		■		■		■	□	
500 g	1,5 t	UFN 1.5T0.5IPM	1490,-	103	2	■		■		■	■	■	■	
500 g	1,5 t	BTEP 1.5T0.5SM	2190,-	101	8	■		■	■	■				□
500 g	1,5 t	UOB 1.5T0.5	850,-	102	2			■						□
500 g	1,5 t	UTEP 1.5T0.5M	1420,-	104	7	■		■	■	■		■	□	
500 g	1,5 t	UTNN 1.5T0.5IPM	2320,-	104	7	■		■	■	■		■	□	
500 g	1,5 t	NTEP 1.5T0.5M	2030,-	105	7	■		■	■	■		■	□	
500 g	1,5 t	NTNN 1.5T0.5M	3120,-	105	7	■		■	■	■		■	□	
1000 g	1,5 t	BOBP 1.5T1	790,-	98	2			■		■				□
1000 g	3 t	BFS 3T1	1350,-	99	2			■	■	■			□	
1000 g	3 t	BFB 3T1M	1400,-	100	2	■		■		■			□	
1000 g	3 t	BTEP 3T1M	2510,-	101	8	■		■	■	■				□

Floor scale KERN BOBP



Floor scale with the best price performance ratio

Features

- Simple and convenient 4-key operation
- Weighing bridge with non-slip steel chequer plate, lacquered. Overall height of weighing bridge 90 mm, height-adjustable screw feet to level the platform
- Wall mount for display device
- Animal weighing program: When the animal moves during the weighing process, a stable average value is obtained by pressing the HOLD key. This value remains „frozen“ until the HOLD key is pressed again

- Optional battery operation, 6x 1.5V AA not included. AUTO-OFF function to preserve the battery. Operating time approx. 60 h
- UNITS: Further weighing units see the internet

Options

-  Stand to elevate display device, height of stand approx. 950 mm, **KERN MWS-A01, € 130,-**
- Ascending ramp including fixing board between weighing bridge and ascending ramp, WxDxH 996x507x87 mm, not included, **KERN BOBP-A01, € 130,-**

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of weighing plate WxDxH 1006x996x90 mm
- Dimensions of display device WxDxH 210x110x45 mm
- Cable length of display device approx. 6 m
- Net weight approx. 50,5 kg
- Permissible ambient temperature 10°C / 35°C

10

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Repro- ducibility g	Linearity g	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
BOBP 300K200	300	200	200	400	750,-	963-129	95,-
BOBP 750K500	750	500	500	1000	750,-	963-130	150,-
BOBP 1.5T1	1500	1000	1000	2000	790,-	963-130	150,-

Floor scale KERN BFS



Robust floor scale with piece-counting function

Features

- Weighing bridge with non-slip steel chequer plate, lacquered. Overall height 80 mm
- Easy access to the junction box from the top
- Comfortable adjustment of the weighing bridge from above
- Benchtop stand incl. wall mount for display device as standard
- Precise counting: The manual optimisation of reference weight gradually improves the average value of the piece weight
- Totalizing of counting operations
- Weighing with tolerance range (check-weighing): Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading

Options

- **1** Stand to elevate display device, height of stand approx. 750 mm, similar to illustration, **KERN BFS-A07, € 100,-**
- Ascending ramp, not included, for models with weighing plate sizes
 - A** WxD 1000x840 mm, **KERN BFS-A01, € 180,-**
 - B** WxD 1250x840 mm, **KERN BFS-A02, € 220,-**
- Pair of base plates to fix the weighing bridge to the floor, **KERN BFS-A06, € 60,-**
- **2** Stable pit frame to install the weighing bridge so you can drive straight on, for models with weighing plate sizes
 - A** WxDxH 1090x1090x86 mm, **KERN BFS-A03, € 150,-**
 - B** WxDxH 1590x1340x86 mm, **KERN BFS-A04, € 200,-**

- Rechargeable battery pack internal, operating time approx. 30 h, charging time approx. 12 h, **KERN KFS-A01, € 30,-**
- **3** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**

Technical data

- Large backlit LCD displays digit height 13/16 mm
- Dimensions of weighing plate:
 - A** 1000x1000x80 mm
 - B** 1500x1250x80 mm
- Dimensions of display device WxDxH 260x150x65 mm
- Permissible ambient temperature 0°C / 40°C

STANDARD



3

FACTORY



STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
KERN BFS 600K200S	600	200	200	85	5	A	1080,-	963-130	150,-
BFS 600K200	600	200	200	135	5	B	1350,-	963-130	150,-
BFS 1.5T0.5S	1500	500	500	85	5	A	1080,-	963-130	150,-
BFS 1.5T0.5	1500	500	500	135	5	B	1350,-	963-130	150,-
BFS 3T1	3000	1000	1	135	5	B	1350,-	963-132	400,-

Floor scale KERN BFB



Robust and extremely affordable floor scale with EC-Type Approval [M]

Features

- Weighing bridge with non-slip steel chequer plate, lacquered. Overall height 80 mm
- Load cell steel, silicone-coated, IP67 protection
- Easy access to the junction box from the top
- Comfortable adjustment of the weighing bridge from above
- Benchtop stand incl. wall mount for display device as standard
- Animal weighing program: When the animal moves during the weighing process, a stable average value is obtained by pressing the HOLD key. This value remains „frozen“ until the HOLD key is pressed again
- Totalizing of weights
- Weighing with tolerance range (checkweighing): Input of an upper/lower limit value. A visual

and audible signal assists with portion division, dispensing or grading

Options

- 1 Stand to elevate display device, height of stand approx. 750 mm, similar to illustration **KERN BFS-A07, € 100,-**
- Pair of base plates to fix the weighing bridge to the floor, **KERN BFS-A06, € 60,-**
- 2 Stable pit frame to install the weighing bridge so you can drive straight on, for models with weighing plate sizes
 - A WxDxH 1090x1090x86 mm, **KERN BFS-A03, € 150,-**
 - B 1590x1340x86 mm, **KERN BFS-A04, € 200,-**
- Rechargeable battery pack internal, operating time approx. 8 h, charging time approx. 12 h, **KERN KFB-A01, € 30,-**

- Ascending ramp, for models with weighing plate sizes

A WxD 1000x840 mm, **KERN BFS-A01, € 180,-**

B WxD 1250x840 mm, **KERN BFS-A02, € 220,-**

- 3 Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of weighing plate:
 - A 1000x1000x80 mm
 - B 1500x1250x80 mm
- Dimensions of display device WxDxH 250x160x58 mm
- Permissible ambient temperature -10°C / 40°C

STANDARD



FACTORY



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
									M III KERN	€	DKD KERN	€
BFB 600K200SM	600	200	200	4000	85	5	A	1130,-	965-230	120,-	963-130	150,-
BFB 600K200M	600	200	200	4000	135	5	B	1400,-	965-230	120,-	963-130	150,-
BFB 1.5T0.5SM	1500	500	500	10000	85	5	A	1130,-	965-230	120,-	963-130	150,-
BFB 1.5T0.5M	1500	500	500	10000	135	5	B	1400,-	965-230	120,-	963-130	150,-
BFB 3T1M	3000	1000	1000	20000	135	5	B	1400,-	965-232	400,-	963-132	400,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

Floor scales KERN BTEP · BTBP · BTSP · BTTP



Quality models for high demands, with EC-Type Approval [M]

Features

- Weighing bridge with non-slip steel chequer plate, lacquered (IP65: Protected against dust and water splashes), extremely resistant to bending. Overall height 80 mm
- Four load cells (IP68) versatile supported, therefore especially shock absorbent, even against transverse forces
- Easy adjustment, special corner adjustment with built-in junction box (stainless steel, IP65: Protected against dust and water splashes, 5 connections)
- 1 BTEP: Weighing, counting, checkweighing
- 2 BTBP: Weighing
- 3 BTSP: Weighing, counting
- 4 BTTP: Weighing, counting, recipe weighing, memory, numerical inputs, checkweighing

Options

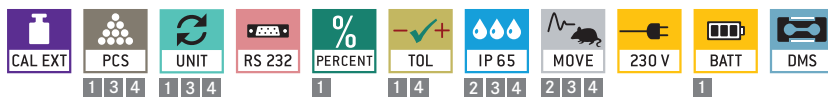
- Wall mount for display device for BTBP, BTSP, BTTP: **KERN ITB-A01, € 95,-** for BTEP: **KERN KME-A01, € 90,-**
- Stand to elevate display device, for KERN BTBP, BTSP, BTTP, height of stand approx. 1140 mm, **KERN ITB-A08, € 220,-** for BTEP, height of stand approx. 1100 mm, **KERN UTNN-A01, € 130,-**
- Ascending ramp not included, for models with weighing plate sizes **A** 1000x750 mm, **KERN BTEP-A01, € 370,-** **B** 1500x750 mm, **KERN BTEP-A02, € 470,-**
- Stand base plate, 480x480 mm, for BTBP, BTSP, BTTP, **KERN TS-A28, € 130,-**
- Pair of base plates to fix the weighing bridge to the floor, not included, **KERN TS-A30, € 70,-**

- Label printer with printout configuration and barcode function, **KERN YKL-01, € 650,-**
- Cable with special length 10 m, must be ordered at purchase, **KERN TS-A31, € 120,-**
- Further accessory see internet

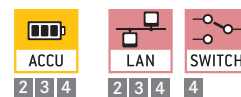
Technical data

- Dimensions of weighing plate **A** 1000x1000 mm **B** 1500x1250 mm **C** 1500x1500 mm
- for models with weighing plate sizes **A** approx. 99 kg **B** approx. 171 kg **C** approx. 204 kg
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10°C / 40°C
- Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs
- Note: For verified models the weighing bridge must be fixed to the floor. Optionally by two ascending ramps or two pairs of base plates or by a combination of these two options.

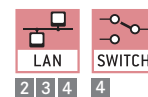
STANDARD



OPTION



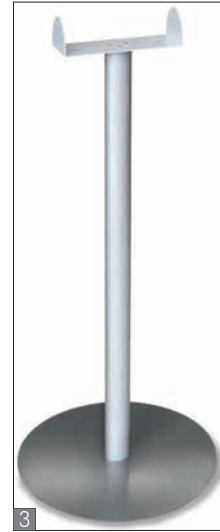
FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] kg	Weighing plate	Price € excl. of VAT ex works				Options				
						BTEP ...	BTBP ...	BTSP ...	BTTP ...	Verification	€	DKD Calibr. Cert.	€	
KERN BTEP ... BTBP ... BTSP ... BTTP ... 600K200SM	600	200	200	4	A	2190,-	2350,-	2420,-	2620,-	M III KERN	950-130	120,-	963-130	150,-
KERN BTEP ... BTBP ... BTSP ... BTTP ... 600K200M	600	200	200	4	B	2340,-	2510,-	2580,-	2780,-	M III KERN	950-130	120,-	963-130	150,-
KERN BTEP ... BTBP ... BTSP ... BTTP ... 1.5T0.5SM	1500	500	500	10	A	2190,-	2350,-	2420,-	2620,-	M III KERN	950-130	120,-	963-130	150,-
KERN BTEP ... BTBP ... BTSP ... BTTP ... 1.5T0.5M	1500	500	500	10	B	2340,-	2510,-	2580,-	2780,-	M III KERN	950-130	120,-	963-130	150,-
KERN BTEP ... BTBP ... BTSP ... BTTP ... 1.5T0.5LM	1500	500	500	10	C	2620,-	2790,-	2860,-	3050,-	M III KERN	950-130	120,-	963-130	150,-
KERN BTEP ... BTBP ... BTSP ... BTTP ... 3T1M	3000	1000	1000	20	B	2340,-	2510,-	2580,-	2780,-	M III KERN	950-132	400,-	963-132	400,-
KERN BTEP ... BTBP ... BTSP ... BTTP ... 3T1LM	3000	1000	1000	20	C	2620,-	2790,-	2860,-	3050,-	M III KERN	950-132	400,-	963-132	400,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

Pallet scale KERN UOB



The bargain in pallet scales

Features

- High mobility: Battery operation, compact, flat construction and low weight make this balance ideal for use in several locations (production, warehouse, dispatch department, ...)
- **1** 2 rollers and handle for easy transport of the scale, height-adjustable screw feet to level the platform

- Weighing bridge lacquered steel
- Simple and convenient 4-key operation
- Wall mount for display device
- The Hold key enables you to obtain a stable weight if weighing conditions are unstable. This value remains „frozen“ until the Hold key is pressed again
- Optional battery operation, 6x 1.5V AA not included. AUTO-OFF function to preserve the battery
- UNITS: Further weighing units see the internet

Options

- **3** Stand to elevate display device, height of stand approx. 950 mm, **KERN MWS-A01, € 130,-**

Technical data

- Display device with large LCD display, digit height 25 mm
- Dimensions of display device WxDxH 210x110x45 mm
- Permissible ambient temperature 10°C / 35°C

STANDARD



STANDARD



OPTION



2

Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Cable length approx. m	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
KERN									
UOB 600K200	600	200	200	± 200	37	1,6	850,-	963-130	150,-
UOB 1.5T0.5	1500	500	500	± 500	37	1,6	850,-	963-130	150,-

Pallet scales KERN UFB · UFN



KERN UFB

KERN UFN

Robust pallet scale in two versions, suitable with EC-Type Approval [M]

Features

- High mobility: thanks to battery operation and compact, flat construction, it is suitable for use in several locations (production, warehouse, dispatch department,...)
- Sturdy handle for easy transportation of the scale
- Dynamic weighing: at the push of a button, a stable average weight is given when the environmental conditions are unstable or when weighing animals
- Weighing with tolerance range (check-weighing): Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading
- Totalizing of weights
- **1** Load cell steel, silicone-coated, IP67
- Load support solid steel construction, extremely resistant to bending

UFB:

- Display device KERN KFB-TM
- Weighing bridge lacquered steel, IP67

UFN:

- **2** Display device KERN KFN-TM, stainless steel, IP67
- Weighing bridge stainless steel, IP67

Options

- **3** Stand to elevate display device, height of stand approx. 750 mm, similar to illustration, **KERN BFS-A07, € 100,-**
- **4** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **5** Statistics printer, **KERN YKT-01, € 820,-**
- **6** Statistics printer, **KERN YKS-01, € 390,-**

UFB:

- **7** Rechargeable battery pack internal, operating time approx. 35 h, charging time approx. 10 h, **KERN KFB-A01, € 30,-**

UFN:

- **8** Data interface RS 232, interface cable included, **KERN KFN-A01, € 60,-**

Technical data

- Large LCD display, digit height 52 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature 0°C / 40°C

UFB:

- Dimensions of display device WxDxH 250x160x58 mm

UFN:

- Dimensions of display device WxDxH 266x165x96 mm

- Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

STANDARD



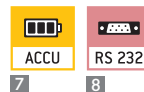
only UFB 4 | 5 | 6

1 | 2

only UFN

only UFN

FACTORY



7

8

STANDARD



2 DAYS

OPTION



+3 DAYS

FACTORY

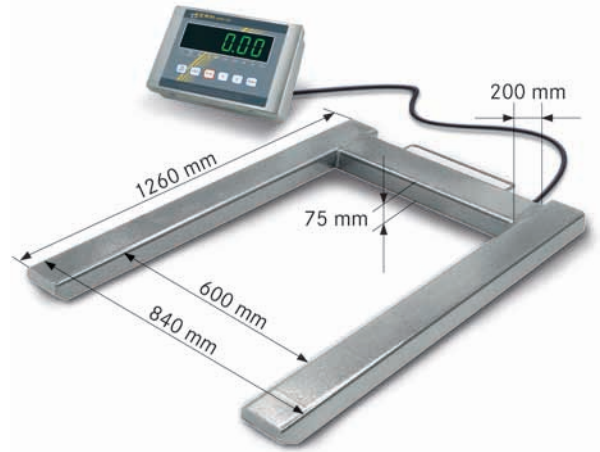
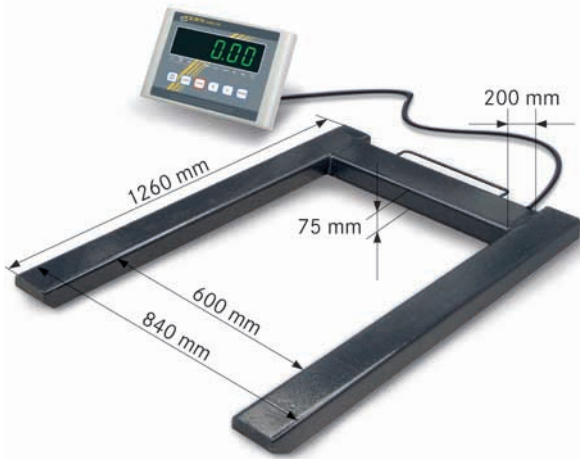


+3 DAYS

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] kg	Net weight approx. kg	Price excl. of VAT ex works €	Options			
							Verification		DKD Calibr. Certificate	
							M III KERN	€	DKD KERN	€
UFB 600K200M	600	200	200	4	43	950,-	965-230	120,-	963-130	150,-
UFB 1.5T0.5M	1500	500	500	10	43	950,-	965-230	120,-	963-130	150,-
stainless steel										
UFN 600K200IPM	600	200	200	4	46	1490,-	965-230	120,-	963-130	150,-
UFN 1.5T0.5IPM	1500	500	500	10	46	1490,-	965-230	120,-	963-130	150,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

Pallet scale KERN UTEP · UTNN



KERN UTEP

KERN UTNN

Mobile for any situation and for heavy loads, with EC-Type Approval [M]

Features

- High mobility: thanks to compact, flat construction, it is suitable for use in several locations (production, warehouse, dispatch department,...)
- Load support solid steel construction, extremely resistant to bending because of its high material thickness (6 mm)
- Automatic taring when placing a container, saves time
- 2 rollers and handle for easy transport of the scale

UTEP:

- Weighing bridge steel lacquered
- **1** Load cells stainless steel nickel-plated, IP67 protection: high level of protection against dust and water. Ideal for harsh environmental conditions. Designed for temporary use in wet areas
- **2** Display device KERN KME-TM

UTNN:

- Weighing bridge stainless steel
- **3** Load cells stainless steel, IP68 protection: highest class of protection against dust and water. Making it very robust and durable. Ideal for harsh ambient conditions. It is even possible that the balance can be submerged in water
- **1** Display device KERN KMN-TM

Options

- **4** Stand to elevate display device, stainless steel, height of stand approx. 1100 mm, **KERN UTNN-A01, € 130,-**
- Wall mount for display device, KERN KME-TM: **KERN KME-A01, € 90,-**
KERN KMN-TM: **KERN KMN-A02, € 120,-**
- **5** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **6** Statistics printer, **KERN YKT-01, € 820,-**
- **7** Statistics printer, **KERN YKS-01, € 390,-**

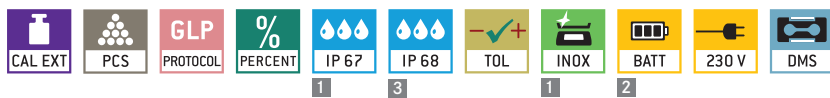
UTNN:

- RS 232 data interface including interface cable approx. 1,5 m, must be ordered at purchase, **KERN KMN-A03, € 90,-**
- **8** Rechargeable battery pack internal, operating time approx. 35 h, charging time approx. 8 h, must be ordered at purchase, **KERN KMN-A01, € 200,-**

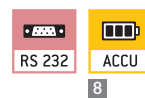
Technical data

- Luminiscent LED display, digit height 30 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10°C / 40°C
- Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

STANDARD



FACTORY



STANDARD



OPTION



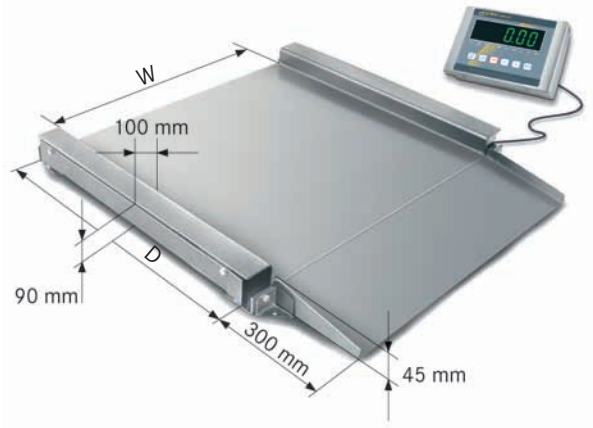
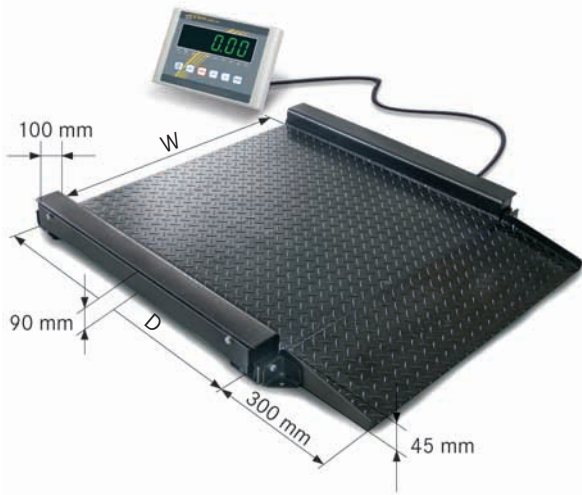
FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] kg	Net weight approx. kg	Price excl. of VAT ex works €	Options			
							Verification		DKD Calibr. Certificate	
							M III KERN	€	DKD KERN	€
UTEP 600K200M	600	200	200	4	65	1420,-	950-130	120,-	963-130	150,-
UTEP 1.5T0.5M	1500	500	500	10	65	1420,-	950-130	120,-	963-130	150,-
UTNN 600K200IPM	600	200	200	4	68	2320,-	950-130	120,-	963-130	150,-
UTNN 1.5T0.5IPM	1500	500	500	10	68	2320,-	950-130	120,-	963-130	150,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

Floor scale KERN NTEP · NTNN



KERN NTEP

KERN NTNN

Extremely flat drive-through scale where driving on is no obstacle, with EC-Type Approval [M]

Features

- Automatic taring when placing a container, saves time

NTEP:

- **1** Weighing bridge with non-slip steel chequer plate, lacquered, extremely resistant to bending
- **1** Load cells steel nickel-plated, IP67 protection: high level of protection against dust and water. Ideal for harsh environmental conditions. Designed for temporary use in wet areas
- **2** Display device: KERN KME-TM (Battery operation standard)

NTNN:

- Weighing bridge stainless steel
- **3** Load cells stainless steel, IP68 protection: highest class of protection against dust and

water. Making it very robust and durable. Ideal for harsh ambient conditions. It is even possible that the balance can be submerged in water
Display device: KERN KMN-TM (Operation by rechargeable battery pack optional)

Options

- **4** Stand to elevate display device, stainless steel, height of stand approx. 1100 mm, **KERN UTNN-A01, € 130,-**
- **5** Standard printer, **KERN YKB-01N, € 240,-**
- Label printer, **KERN YKL-01, € 650,-**
- **6** Statistics printer, **KERN YKT-01, € 820,-**
- **7** Statistics printer, **KERN YKS-01, € 390,-**

NTEP:

- Wall mount for the display device, **KERN KME-A01, € 90,-**

- Ascending ramp, steel, not included, for models with weighing plate sizes
A KERN NTEP-A01, € 160,-
B KERN NTEP-A02, € 185,-

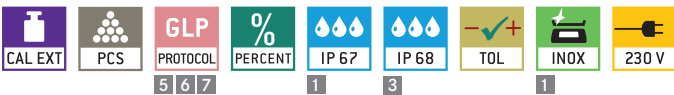
NTNN:

- Wall mount for the display device, **KERN KMN-A02, € 120,-**
- Data interface RS 232, interface cable included, must be ordered at purchase, **KERN KMN-A03, € 90,-**
- Rechargeable battery pack internal, standard, operating time approx. 35 h, charging time approx. 8 h, must be ordered at purchase, **KERN KMN-A01, € 200,-**
- Ascending ramp, stainless steel, not included, **KERN NTNN-A01, € 270,-**

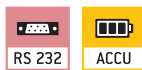
Technical data

- Large luminescent LED display, digit height 30 mm
- Dimensions of weighing plate WxD:
A 1000x1000 mm
B 1200x1200 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10°C / 40°C

STANDARD



FACTORY



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M III KERN	€	DKD KERN	€
NTEP 600K200M	600	200	200	400	150	A	2030,-	950-130	120,-	963-130	150,-
NTEP 600K200LM	600	200	200	400	207	B	2430,-	950-130	120,-	963-130	150,-
NTEP 1.5T0.5M	1500	500	500	1000	163	A	2030,-	950-130	120,-	963-130	150,-
NTEP 1.5T0.5LM	1500	500	500	1000	207	B	2430,-	950-130	120,-	963-130	150,-
NTNN 600K200M	600	200	200	400	150	A	3120,-	950-130	120,-	963-130	150,-
NTNN 1.5T0.5M	1500	500	500	1000	163	A	3120,-	950-130	120,-	963-130	150,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
For the verification at the factory, we need to know the full address of the location of use.

11 Display devices / Weighing bridges

Individuality is the trump card

Do you have any special requests, which are not covered by our extensive balance range? Then why not configure your ideal model yourself, it's quick, individual and affordable.

It's your choice:

- Choose one of the many KERN weighing bridges, pallet scales or drive-through scales and combine these with one of the many KERN display devices
- Combine **your** weighing bridge with a KERN display device
- Combine **your** display device with a KERN weighing bridge

With KERN get your ideal balance verified too

To help you achieve a verified individual scale combination KERN offers you full support, such as for example

- Production of proof of compatibility
- Support in preparing for verification
- Issue of declaration of conformity and much more



Of course we can also offer you the complete service and put the required scale combination together for you, including verification. All further details can be found on the following pages or ask your personal customer service agent, he will be pleased to advise you.

KERN Model	Page
Individual scale combinations	107
Verification consultation	107
Display devices	
KFS-T	108
KERN KFB-TM	108
KERN KFN-TM	108
KERN KFF-T	108
Platforms, Weighing bridges	
Platform KFP V20	109
Platform KTP V40	109
U-Weighing bridge KFU	109
Weighing bridge KFP V20	109

Do you have questions about KERN industrial scales, display units, weighing bridges, or custom balance combinations?

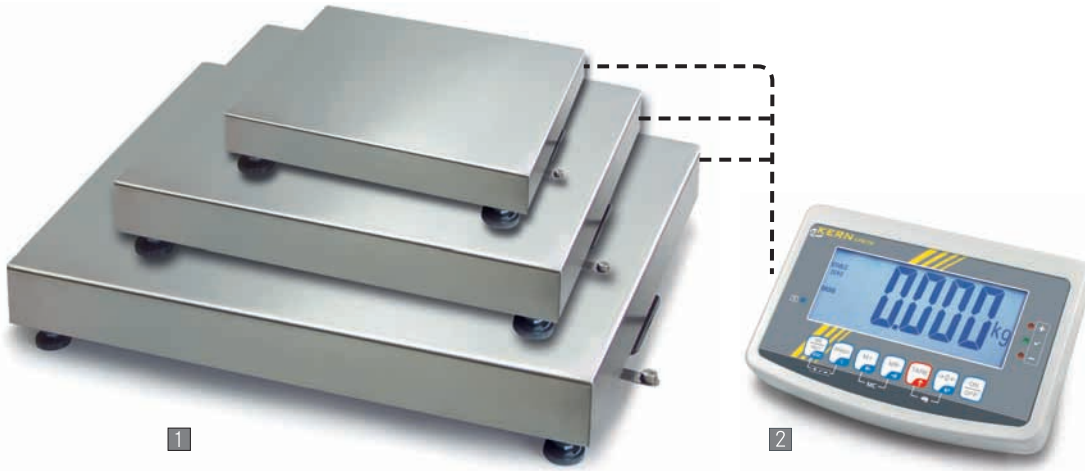


Your KERN product specialist will be happy to help:

Stephan Ade  
Product specialist Industrial Scales

Tel. +49-(0) 74 33-99 33-121
Fax +49-(0) 74 33-99 33-29121
ade@kern-sohn.com

KERN Components



You select the KERN-components, KERN will look after the rest:

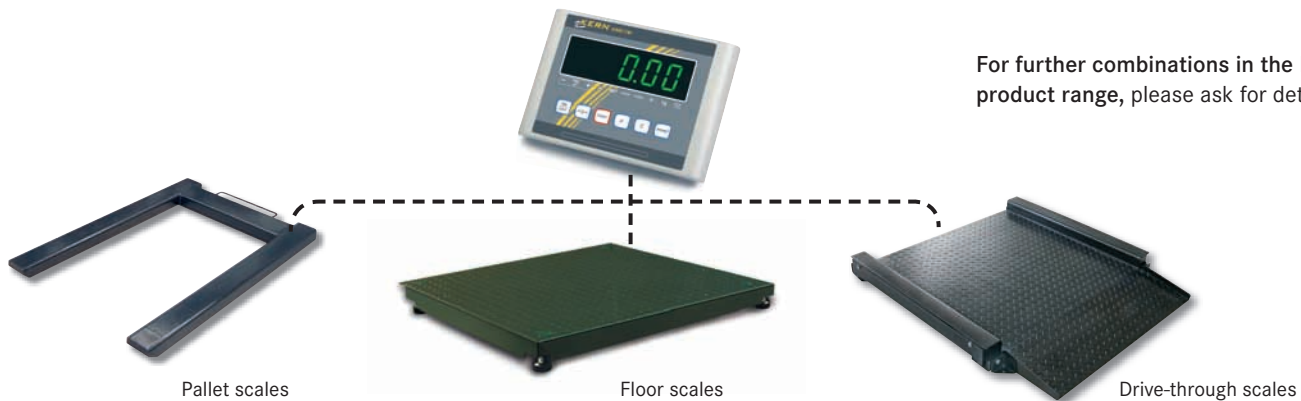
- **1** Platforms KERN KTP, KFP (see page 109)
- **2** Display devices KF...-T (see page 108)
- **3** Assembly of a complete scale
- **4** Verification at the factory
- **5** Proof of compatibility for on-site verification
- **6** DKD calibration

Components for individual scale combinations

FACTORY	STANDARD
M +3 DAYS	DKD +3 DAYS
8 DAYS	3 YEARS GUARANTY

Services	KERN	Price € excl. of VAT, ex works
(Assembly of platform and display device)		
KERN Platform, see page 109		
KERN Display devices, see page 108		
Assembly to complete scale		
Weighing ranges max ≤ 150 kg	930-101	115,-
Weighing ranges max > 150 - 600 kg	930-102	165,-
Weighing ranges max > 600 kg	930-103	225,-
Complete scale (not verified)		
Add. price for verification ex works		
Proof of compatibility	965-240	45,-
Weighing ranges max ≤ 5 kg	950-127	45,-
Weighing ranges max > 5 kg - 50 kg	950-128	50,-
Weighing ranges max > 50 kg - 350 kg	950-129	75,-
Weighing ranges max > 350 kg - 1500 kg	950-130	120,-
Complete scale (verified)		
DKD calibration, see page 148	963-128	

Order example	KERN	Price € excl. of VAT, ex works
(Platform KFP 30V20M and display device KFB-TM)		
1 KERN Platform KFP 30V20M		140,-
2 KERN Display device KFB-TM		140,-
3 Assembly to complete scale		
Weighing ranges max ≤ 150 kg	930-101	115,-
Complete scale (not verified)		395,-
Add. price for verification ex works		
4 Proof of compatibility	965-240	45,-
5 Verification ex works KERN	950-128	50,-
Complete scale (verified)		490,-
6 DKD calibration	963-128	80,-



For further combinations in the KERN product range, please ask for details.

Verification consultation service for individual scale combinations

Information for specialist balance companies:

If display devices (terminals) with EC-Type approval and weighing bridges (e.g. platforms, floor scales or drive-through scales) with EC-Type approval are combined as a complete unit, then this weighing system can be verified as a class III commercial scale.

For this procedure KERN offers the following support:

- **4** **Proof of compatibility:** We will confirm whether combinations of weighing modules such as display devices, load cells and connecting elements are appropriate for verification. We would be pleased to carry this out for you.
- **Eligibility for initial verification by the manufacturer:** We will support you in preparing for verification and issue of the declaration of conformity.

Display devices KERN



1 KERN KFS-T

2 KERN KFB-TM

3 KERN KFN-TM

4 KERN KFF-T

STANDARD



OPTION



STANDARD



OPTION



STANDARD



STANDARD



STANDARD



STANDARD



KERN display devices for many platforms – innovative technology to construct your own weighing system. They can be combined, for example, with all platforms on page 109

Features	Model KERN →			
	1 KFS-T	2 KFB-TM	3 KFN-TM	4 KFF-T
Characteristics	Professional display with three segments	Large digits, easy to read	Stainless steel protected to IP67	Wireless connection to weighing platform
Display (segments)	6 digits	5 + ½ digits	5 + ½ digits	6 digits
Resolution verifiable	-	6.000 e	6.000 e	-
Resolution non verifiable	2 x 30.000 2 x 60.000 d	30.000 d	30.000 d	30.000 d
Weighing ranges	2	≤ 2	≤ 2	≤ 2
Weighing units	kg	kg	kg	g, kg, lb, oz, tJ, hJ
Graduations	1, 2, 5, ...10, n	1, 2, 5, ...10, n	1, 2, 5, ...10, n	1, 2, 5, ...10, n
Piece counting with reference	n	-	-	-
Display, digit height	backlit LCD display, 13/16 mm	backlit LCD display, 52 mm	backlit LCD display, 52 mm	backlit LCD display, 22 mm
Additional functions	Totalizing and %-function	Totalizing and HOLD-Function	Totalizing and HOLD-Function	Totalizing, HOLD-Function, date and time
WSG load cells	80-100 Ω, max. 4 piece à 350 Ω, 80-100 Ω, sensibility 2-3 m V/V			
Linearisation	5 points	3 points	3 points	3 points
Input voltage	9 V/800 mA	9 V/800 mA	9 V/800 mA	9 V/800 mA
Housing	260x150x65 mm	250x160x58 mm	266x165x96 mm	250x180x105 mm
Permissible ambient temperature	0°... - 40° C	0°... - 40° C (not verified) -10°... - 40° C (verified)	0°... - 40° C (not verified) -10°... - 40° C (verified)	0°... - 40° C
Net weight	1,5 kg	1,5 kg	2 kg	2,5 kg
Rechargeable battery pack	KFS-01, € 30,-	KFB-A01, € 30,-	standard	standard
Operating/charging time	approx. 40 h / 12 h	approx. 35 h / 12 h	approx. 50 h / 12 h	approx. 35 h / 12 h
Interface RS 232 C	yes	yes	KFN-A01, € 60,-	yes
Column	BFS-A07, € 100,-	BFS-A07, € 100,-	BFS-A07, € 100,-	-
Benchtop stand for display device	incl.	incl.	incl.	incl.
Wall mount	incl.	incl.	incl.	-
Price € excl. VAT, ex works	€ 130,-	€ 140,-	€ 200,-	€ 370,-



NOTE: If display devices and platforms (weighing bridges) with EC-Type Approval (M) are combined into a complete unit, this weighing system can be verified in the EU as a class III commercial scale. For further details see page 106.

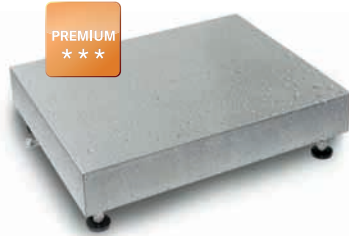
WARRANTY



READY FOR SHIPPING



Platforms KERN KFP · KTP · KFU



1 KERN KFP V20

2 KERN KTP V40

3 KERN KFU

4 KERN KFP V20

STANDARD OPTION

IP 65 2 DAYS 2 YEARS GUARANTY M +3 DAYS

STANDARD OPTION

IP 68 8 DAYS 3 YEARS GUARANTY M +3 DAYS

STANDARD OPTION

IP 67 2 DAYS 3 YEARS GUARANTY M +3 DAYS

STANDARD OPTION

IP 67 2 DAYS 3 YEARS GUARANTY M +3 DAYS

Platform KERN KFP V20

- 1 load cell, aluminium, silicone-coated, IP65
- Stainless steel weighing plate. Painted steel base
- Foot screws and level indicator
- OIML-approved load cell, class III, 3000 e

Platform KERN KTP V40

- 1 load cell, stainless steel, hermetically encapsulated, IP68
- **4** Stainless steel weighing plate and base
- Foot screws and level indicator
- OIML-approved load cell, class III, 3000 e

U-shaped weighing bridge KERN KFU

- 4 load cells, steel, silicone-coated, IP67
- Load area, painted steel (_V20), stainless steel (_V30)
- 2 rollers and handle for easy transport of the scale
- OIML-approved load cell, class III, 3000 e

Weighing bridge KERN KFP V20

- 4 load cells, steel, silicone-coated, IP67
- Painted steel base. Weighing bridge plate, out of anti-slip corrugated steel, painted. Extremely resistant to bending because of its high material thickness.
- Can be built in using pit frames (optional)
- OIML-approved load cell, class III, 3000 e
- For accessories see page 99/100, KERN BFS/BFB



6

Can be used in any combination, e.g. with all display devices on page 108

Model →	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Min. load [Min] g	Add. preload kg	Cable length approx m	Net weight approx. kg	Total dimensions WxDxH mm	Price without VAT, ex works €
KERN ↓									
1 Platform KERN KFP V20									
KFP 6V20M	6	2	2	40	2	2	3,9	230x230x100	140,-
KFP 6V20LM	6	2	2	40	1	2	4,6	300x240x100	160,-
KFP 15V20M	15	5	5	100	2	2	4,6	300x240x100	160,-
KFP 30V20M	30	10	10	200	10	2	9,7	400x300x128	180,-
KFP 60V20M	60	20	20	400	35	2	9,7	400x300x128	180,-
KFP 60V20LM	60	20	20	400	30	2	14,3	500x400x137	220,-
KFP 150V20M	150	50	50	1000	90	2	14,3	500x400x137	220,-
KFP 150V20LM	150	50	50	1000	136	2	20,8	650x500x142	370,-
KFP 300V20M	300	100	100	2000	186	2	20,8	650x500x142	370,-
2 Platform KERN KTP V40									
KTP 15V40IPM	15	5	5	100	3	2,5	4,4	240x300x97	780,-
KTP 30V40IPM	30	10	10	200	6	2,5	8,2	300x400x108	910,-
KTP 60V40IPM	60	20	20	400	12	2,5	8,2	300x400x108	910,-
KTP 60V40LIPM	60	20	20	400	12	2,5	13,6	400x500x135	1130,-
KTP 150V40IPM	150	50	50	1000	30	2,5	13,6	400x500x135	1130,-
KTP 150V40LIPM	150	50	50	1000	30	2,5	24,4	500x650x140	1420,-
KTP 300V40IPM	300	100	100	2000	60	2,5	24,4	500x650x140	1420,-
3 U-shaped weighing bridge KERN KFU									
KFU 600V20M	600	200	200	4	120	5	41	1190x840x90	870,-
KFU 1500V20M	1500	500	500	10	300	5	41	1190x840x90	870,-
Stainless steel									
KFU 600V30M	600	200	200	4	120	5	42	1190x840x90	1340,-
KFU 1500V30M	1500	500	500	10	300	5	42	1190x840x90	1340,-
4 Weighing bridge KERN KFP V20									
KFP 600V20SM	600	200	200	4	120	5	110	1000x1000x90	990,-
KFP 600V20M	600	200	200	4	120	5	170	1500x1250x90	1290,-
KFP 1500V20SM	1500	500	500	10	300	5	110	1000x1000x90	990,-
KFP 1500V20M	1500	500	500	10	300	5	170	1500x1250x90	1290,-
KFP 3000V20M	3000	1000	1000	20	500	5	170	1500x1250x90	1290,-

12 Pallet truck scales

KERN Model		Page
VHE	This model is the ideal entry into the world of mobile weighing	111
VHB	Transportation and weighing in one operation	112
VHS	Robust pallet truck scale with integrated printer	113
VHT	Professional pallet truck scale with counting function, integrated printer and removable battery pack	114
VHM	Professional pallet truck scale with removable battery pack and EC-Type Approval [M]	115



Weighing and transportation in one operation

Speed up your warehouse and dispatch processes with the KERN pallet truck scales.

Get the exact weight of a load and at the same time, transport it to a specific location, all in one operation. This shortens commissioning times and also avoids the queues, which can occur when you use fixed floor scales.

These mobile weighing solutions are space-saving and deliver reliable weighing results in any location. So, for example in Goods Inwards and Outwards, you can quickly identify differences between given and actual weights. This uncovers any errors in quantities, saves you time and money and thus ensures a very short amortisation period for the original cost of the scale.

KERN offers a carefully coordinated range from affordable entry level models, via the easy-to-use model with counting function, printer or removable battery pack for uninterrupted functionality, right through to the top level model in verified version.

KERN pallet truck scales are made in robust industrial quality, with high level of protection against dust and water splashes, with high-contrast, easy-to-read displays as well as solid wheels and load rollers with foot brakes - all this helps to give you practical support in your work - day after day.

Of course, all KERN pallet truck scales can also be calibrated and delivered with a DKD calibration certificate (optional). This ensures the high level of accuracy of your pallet truck scale.

Quick-Finder Pallet truck scales

■ = Standard □ = Option

Readout	Weighing range	Model	Price € excl. VAT ex works	Page	DAYS ready for shipping	M	CAL INT	CAL EXT	PCS	RS 232	INOX	IP	ACCU	BATT
d	Max	KERN				For an explanation of the symbols, see the flap of the envelope								
0,2/0,5/1 kg	0,2/0,5/2 t	VHT 2T0.2T	2.890,-	114	1			■	■			■	■	
1 kg	2 t	VHB 2T1	1.480,-	112	1			■				■		■
1 kg	2 t	VHS 2T1	1.940,-	113	1			■				■		■
2 kg	2 t	VHM 2T2M	2.340,-	115	1	■		■				■	■	
5 kg	2,2 t	VHE 2T5	990,-	111	1			■				■		■

Pallet truck scale KERN VHE



This model is the ideal entry into the world of mobile weighing

Features

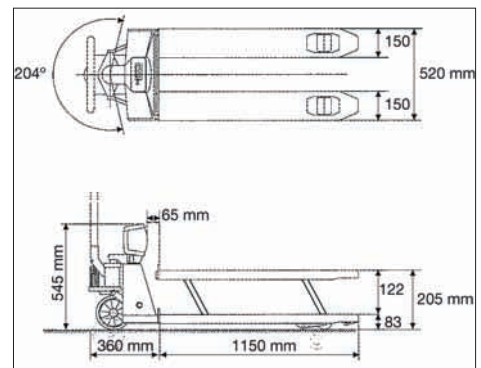
- Very manoeuvrable thanks to its compact construction and low weight
- Particularly robust because the sensitive components have been relocated from the load fork into the protected housing area. It is therefore also ideal for heavy applications in the production area and on board lorries
- Low height of the loading forks making it easy to work with low pallets
- **A** Display device: IP65. Protected against dust and water splashes
- **B** Load area: IP67. Load cells are protected against dust and water, designed for temporary use in wet areas
- Pivot range 204°, solid rubber castors on aluminium rims
- Specially constructed for general check-weighing, e.g.: Plausibility check at Goods Inwards, establishing shipping weights, avoiding overloads, safety checks

Operation:

- 1 Pump up the load fork to the reference height
 - 2 Switch on and then tare off
 - 3 Release the load fork and position the goods to be weighed on it
 - 4 Weighing: Pump the load fork up to the reference height
- **C** Transport position
 - **D** Weighing position
 - Ready for use: Batteries included (4x 1,5V AA). AUTO-OFF function to preserve the battery. Operating time approx. 1 year/3000 weighings. Charge condition indicator on display

Technical data

- Display device with large LCD display with digit height 18 mm



STANDARD



STANDARD



OPTION



Model	Weighing range	Readout	Net weight approx.	Permissible ambient temperature °C	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
KERN VHE 2T5	[Max] kg 2200	[d] kg 5	kg 60	-10°C / 40°C	990,-	963-131	200,-

Pallet truck scale KERN VHB



Transportation and weighing in one operation

Features

- PRE-TARE function for manual subtraction of a known container weight, which can be saved
- **1** Display device: IP65. Protected against dust and water splashes
- **2** Load area: IP67. Load cells are protected against dust and water, designed for temporary use in wet areas
- Pivot range 206°, solid rubber castors on aluminium rims
- **3** Tandem tyres on load rollers so that you can get over thresholds and obstacles more easily

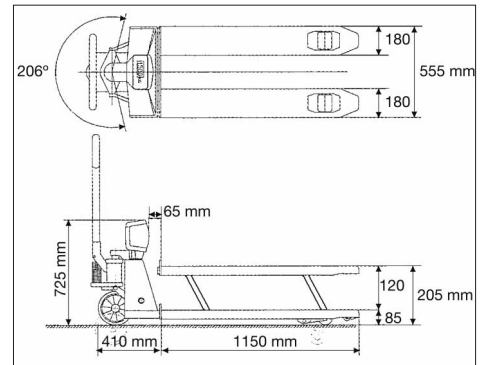
- Ready for use: Batteries included (4x 1,5V AA). AUTO-OFF function to preserve the battery. Operating time approx. 80 h/1700 weighings. Charge condition indicator on display

Options

- **4** Footbrake to lock solid rubber castors, **KERN VHB-A01, € 260,-**

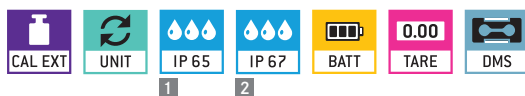
Technical data

- Large LCD display, digit height 28 mm



12

STANDARD



STANDARD



OPTION



Model	Weighing range	Readout	Net weight approx.	Permissible ambient temperature °C	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
KERN VHB 2T1	[Max] kg 2000	[d] kg 1	kg 120	-10°C / 40°C	1480,-	963-131	200,-

Pallet truck scale KERN VHS



Robust pallet truck scale with integrated printer

Features

- PRE-TARE function for manual subtraction of a known container weight, which can be saved
- **1** Display device: IP65. Protected against dust and water splashes
- **2** Load area: IP67. Load cells are protected against dust and water, designed for temporary use in wet areas
- Pivot range 206°, solid rubber castors on aluminium rims
- **3** Tandem tyres on load rollers so that you can get over thresholds and obstacles more easily
- **1** Integrated thermal printer, standard. Width of paper 58 mm, 24 characters/line, print-out speed up to 45 mm/sec, temperature range 0 ... + 40 °C

Accessories: Paper rolls (10 pieces), **KERN VHS-A10, € 35,-**

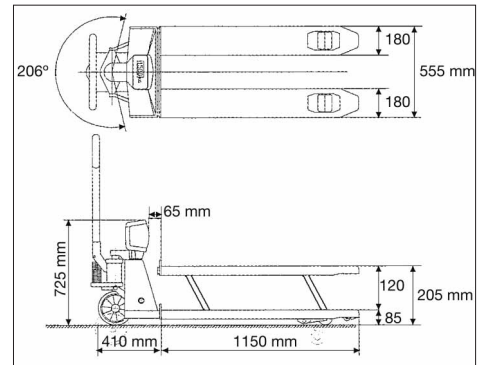
- Ready for use: Batteries included (4x 1,5V AA). AUTO-OFF function to preserve the battery. Operating time approx. 80 h/1700 weighings. Charge condition indicator on display

Options

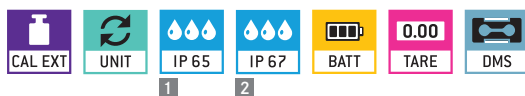
- **4** Footbrake to lock solid rubber castors, **KERN VHB-A01, € 260,-**

Technical data

- Large LCD display, digit height 28 mm



STANDARD



STANDARD



OPTION



Model	Weighing range	Readout	Net weight approx.	Permissible ambient temperature °C	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
KERN VHS 2T1	[Max] kg 2000	[d] kg 1	kg 125	-10°C / 40°C	1940,-	963-131	200,-

Pallet truck scale KERN VHT



Professional pallet truck scale with integrated printer and removable battery pack

Features

- PRE-TARE function for manual subtraction of a known container weight, which can be saved
- **1** Display device: IP65. Protected against dust and water splashes
- **2** Load area: IP67. Load cells are protected against dust and water, designed for temporary use in wet areas
- Pivot range 206°, solid rubber castors on aluminium rims
- **3** Tandem tyres on load rollers so that you can get over thresholds and obstacles more easily
- **1** Rechargeable battery pack internal, standard, with practical handle for quick replacement, operating time approx. 35 h, charging time approx. 6 h, can be reordered, **KERN VHT-A01, € 220,-**

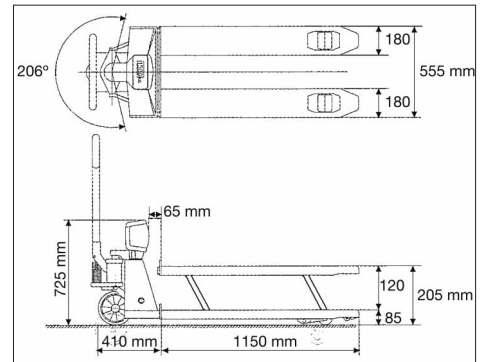
- **1** Integrated thermal printer, standard. Printout with date and time. Width of paper 58 mm, 24 characters/line, print-out speed up to 45 mm/sec, temperature range 0 ... + 40 °C
Accessories: Paper rolls, (10 pieces)
KERN VHS-A10, € 35,-

Options

- **4** Footbrake to lock solid rubber castors, **KERN VHB-A01, € 260,-**

Technical data

- Large LCD display, digit height 18 mm



STANDARD



1 **2**

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] kg	Net weight approx. kg	Permissible ambient temperature °C	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
KERN VHT 2T0.2T	200 500 2200	200 500 1000	125	-10°C / 40°C	2890,-	963-131	200,-

Pallet truck scale KERN VHM



Professional pallet truck scale with removable battery pack and EC-Type Approval [M]

Features

- Verified pallet truck scale, so can be used in commercial trade situations. Please observe legal conditions and relevant recommendations for use
- PRE-TARE function for manual subtraction of a known container weight, which can be saved
- **1** Display device: IP65. Protected against dust and water splashes
- **2** Load area: IP67. Load cells are protected against dust and water, designed for temporary use in wet areas
- Pivot range 206°, solid rubber castors on aluminium rims
- **3** Tandem tyres on load rollers so that you can get over thresholds and obstacles more easily

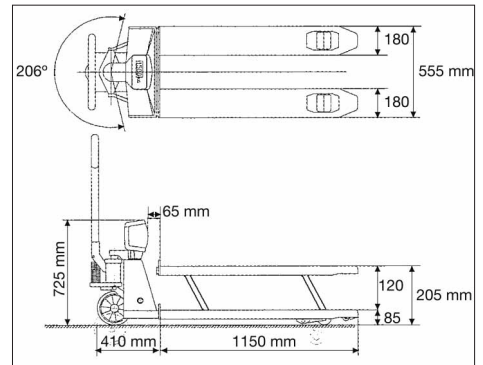
- **1** Rechargeable battery pack internal, standard, with practical handle for quick replacement, operating time approx. 35 h, charging time approx. 6 h, can be reordered, **KERN VHT-A01, € 220,-**

Options

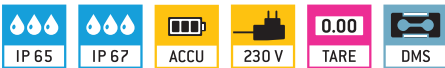
- **4** Footbrake to lock solid rubber castors, **KERN VHB-A01, € 260,-**

Technical data

- Large LCD display, digit height 18 mm



STANDARD



STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Net weight approx. kg	Permissible ambient temperature °C	Price excl. of VAT ex works €	Options			
						Verification		DKD Calibr. Certificate	
						M III KERN	€	DKD KERN	€
VHM 2T2M	2000	2000	125	-10°C / 40°C	2340,-	965-231	200,-	963-131	200,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

13 Hanging scales / crane scales



KERN Model		Page
HDB CH	Convenient and always handy	117
HCB HCN	The handy scales for higher loads, also with IP65	118
HFB	The professional alternative up to 600 kg with rear-facing second display	119
HUS	Compact up to 600 kg	120
HFM	High resolution industrial crane scale up to 10 t	121
HUM	Ideal for the industry, up to 3 t	122
HTS	Top level model up to 10 t, with IP65 and EC-Type Approval [M]	123

Quick-Finder Hanging scales/crane scales

■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	 DAYS ready for shipping									
5 g	5 kg	HDB 5K5	42,-	117	1									
10 g	10 kg	HDB 10K10	42,-	117	1									
10 g	20 kg	HCB 20K10	105,-	118	1									
20 g	15 kg	CH 15K20	55,-	117	1									
20 g	50 kg	HCB 50K20	115,-	118	1									
50 g	20 kg	HCB 20K50	85,-	118	1									
50 g	20 kg	HCN 20K50IP	120,-	118	1									
50 g	50 kg	CH 50K50	60,-	117	1									
50 g	99 kg	HCB 99K50	120,-	118	1									
50 g	150 kg	HFB 150K50	260,-	119	1									
50 g	150 kg	HUS 150K50	370,-	120	1									
50 g	150 kg	HTS 150K50IP	670,-	123	7									
50 g	150 kg	HTS 150K50IPM	740,-	123	7									
100 g	50 kg	CH 50K100	50,-	117	1									
100 g	50 kg	HCB 50K100	90,-	118	1									
100 g	50 kg	HCN 50K100IP	150,-	118	1									
100 g	200 kg	HCB 200K100	120,-	118	1									
100 g	300 kg	HFB 300K100	260,-	119	1									
100 g	300 kg	HUS 300K100	390,-	120	1									
100 g	300 kg	HTS 300K100IP	700,-	123	7									
100 g	300 kg	HTS 300K100IPM	770,-	123	7									
100 g	1000 kg	HFM 1T0.1	530,-	121	1									
200 g	100 kg	HCB 100K200	110,-	118	1									
200 g	100 kg	HCN 100K200IP	150,-	118	1									
200 g	600 kg	HFB 600K200	260,-	119	1									
200 g	600 kg	HUS 600K200	410,-	120	1									
200 g	600 kg	HTS 600K200IP	730,-	123	7									
200 g	600 kg	HTS 600K200IPM	800,-	123	7									
500 g	200 kg	HCB 200K500	105,-	118	1									
500 g	200 kg	HCN 200K500IP	150,-	118	1									
500 g	1 t	HUM 1000K500	690,-	122	1									
500 g	1,5 t	HTS 1.5T0.5IP	1020,-	123	7									
500 g	1,5 t	HTS 1.5T0.5IPM	1090,-	123	7									
500 g	3 t	HFM 3T0.5	570,-	121	1									
500 g	5 t	HFM 5T0.5	730,-	121	1									
1 kg	3 t	HUM 3000K1000	820,-	122	1									
1 kg	3 t	HTS 3T1IP	1510,-	123	7									
1 kg	3 t	HTS 3T1IPM	1580,-	123	7									
1 kg	10 t	HFM 10T1	980,-	121	1									
2 kg	6 t	HTS 6T2IP	1900,-	123	7									
2 kg	6 t	HTS 6T2IPM	1970,-	123	7									
5 kg	10 t	HTS 10T5IP	2130,-	123	7									
5 kg	10 t	HTS 10T5IPM	2200,-	123	7									

Hanging scales KERN HDB · CH



Convenient and always handy

Features

- Multi data hold function:
By pressing the Hold key...
 - the weight display can be „frozen“ for 5 sec
 - the weight display can be „frozen“ until any key is pressed
 When the weighing value remains unchanged...
 - the weight display is automatically „frozen“ for 5 sec
 - the weight display is automatically „frozen“ until any key is pressed

HDB:

- Hook (stainless steel), can be hinged
- Ready for use: 2x 1.5V AAA standard. AUTO-OFF function to preserve the battery. Operating time approx. 180 h
- Further weighing units: kg, lb, N

CH:

- Hook (stainless steel)
- Tape measure, extractable, length approx. 100 cm
- Peak load display (peak hold), measuring frequency 5 Hz
- Ready for use: 9V Block standard. AUTO-OFF function to preserve the battery, can be switched off
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5°C / 35°C

STANDARD



STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	LCD display, digit height mm	Dimensions housing WxDxH mm	Height with hook mm	Net weight approx. kg	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
KERN									
HDB 5K5	5	5	12	105x70x25	195	0,15	42,-	963-127	65,-
HDB 10K10	10	10	12	105x70x25	195	0,15	42,-	963-128	80,-
CH 15K20	15	20	11	90x30x175	270	0,25	55,-	963-128	80,-
CH 50K50	50	50	11	90x30x175	270	0,25	60,-	963-128	80,-
CH 50K100	50	100	11	90x30x175	270	0,25	50,-	963-128	80,-

Hanging scales KERN HCB · HCN



KERN HCB



KERN HCN



Convenient for hanging loads

Features

- Multi data hold function:
By pressing the Hold key...
 - the weight display can be „frozen“ for 5 sec
 - the weight display can be „frozen“ until any key is pressed
 When the weighing value remains unchanged...
 - the weight display is automatically „frozen“ for 5 sec
 - the weight display is automatically „frozen“ until any key is pressed
- LCD display, digit height 12 mm

- Peak load display (peak hold), measuring frequency 5 Hz

HCB:

- Ready for use: 3x 1.5V AA standard, operating time approx. 300 h

HCN:

- Second display on the rear of the balance
- Ready for use: Batteries included, 2x 1,5V AA, operating time approx. 200 h
- **1** Stainless steel housing, IP65 protection

Options

- Hook (stainless steel) included, aperture approx. 25 mm, can be reordered, **KERN HCB-A02, € 30,-**
- Snap link included (stainless steel) with safety catch, aperture approx. 15 mm, can be reordered, **KERN HCB-A01, € 30,-**

STANDARD



STANDARD



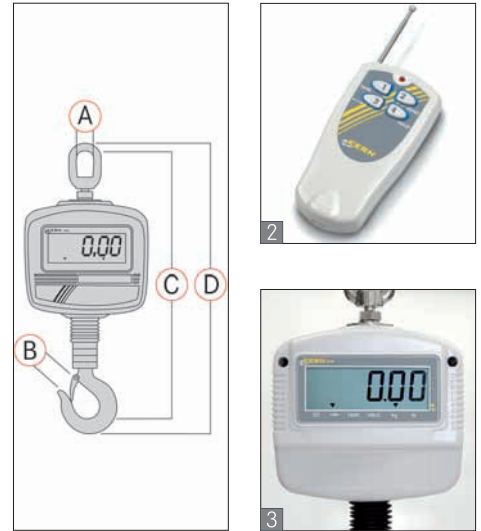
OPTION



Model	Weighing range [Max] kg	Read-out [d] g	LCD display, digit height mm	Dimensions housing WxDxH mm	Height with hook and snap link mm	Net weight approx. kg	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
KERN									
HCB 20K10	20	10	12	150x80x45	290	0,4	105,-	963-128	80,-
HCB 20K50	20	50	12	150x80x45	290	0,4	85,-	963-128	80,-
HCB 50K20	50	20	12	150x80x45	290	0,4	115,-	963-128	80,-
HCB 50K100	50	100	12	150x80x45	290	0,4	90,-	963-128	80,-
HCB 99K50	99	50	12	150x80x45	290	0,4	120,-	963-129	95,-
HCB 100K200	100	200	12	150x80x45	290	0,4	110,-	963-129	95,-
HCB 200K100	200	100	12	150x80x45	290	0,4	120,-	963-129	95,-
HCB 200K500	200	500	12	150x80x45	290	0,4	105,-	963-129	95,-
stainless steel									
HCN 20K500IP	20	50	12	175x95x55	315	0,8	120,-	963-128	80,-
HCN 50K100IP	50	100	12	175x95x55	315	0,8	150,-	963-128	80,-
HCN 100K200IP	100	200	12	175x95x55	315	0,8	150,-	963-129	95,-
HCN 200K500IP	200	500	12	175x95x55	315	0,8	150,-	963-129	95,-

■ Price reduction

Crane scale KERN HFB



The professional alternative up to 600 kg with rear-facing second display

Features

- **1** With the TÜV/GS certification mark, the scale meets the requirements of the German Equipment and Product Safety Act (Geräte- und Produktsicherheitsgesetz, GPSG) and has been tested in accordance with EN 13155 (Non-fixed load lifting attachments) and EN 61010-1 (Elektrische Sicherheit)
- High mobility: thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department,...)
- **2** Second display on the rear of the balance
- Hook with safety catch, revolving

- Rechargeable battery pack internal, standard, operating time approx. 30 h, charging time approx. 14 h with mains adapter. Charge indicator using LED
- Data hold function: When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- Tare: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- **2** Radio remote control standard. Range approx. 20 m. All functions can be selected (excl. ON/OFF). WxDxH 48x10x95 mm. Batteries included 2 x 1,5 V AAA

Technical data

- Superior display size: digit height 25 mm. Bright backlight for easy reading of weight, even from a distance
- Dimensions housing WxDxH 163x126x158,5 mm
- Precision: 0.2 % from [Max]
- Permissible ambient temperature 0°C / 40°C

STANDARD



STANDARD

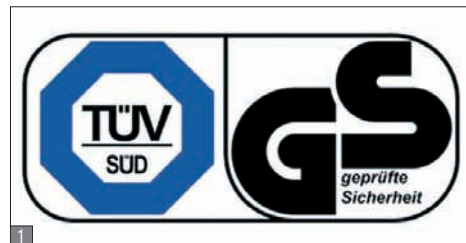


OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Net weight approx. kg	Dimensions				Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
				A	B	C	D		DKD KERN	€
KERN				mm	mm	mm	mm			
HFB 150K50	150	50	3,2	26	25	358	390	260,-	963-129	95,-
HFB 300K100	300	100	3,2	26	25	358	390	260,-	963-129	95,-
HFB 600K200	600	200	3,2	26	25	358	390	260,-	963-130	150,-

Crane scale KERN HUS



Compact up to 600 kg

Features

- **1** With the TÜV/GS certification mark, the scale meets the requirements of the German Equipment and Product Safety Act (Geräte- und Produktsicherheitsgesetz, GPSG) and has been tested in accordance with EN 13155 (Non-fixed load lifting attachments) and EN 61010-1 (Elektrische Sicherheit)
- Hook with safety catch, forged steel, nickel-plated, revolving
- Loop forged steel, nickel-plated
- Rechargeable battery pack internal, standard, operating time approx. 120 h,

- charging time approx. 8 h (internal charging with mains adapter). Selectable: AUTO-OFF function or permanent operation. Charge condition indicator using three-colour LED
- Data hold function: When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- Tare: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- **2** Infrared remote control standard. Range approx. 2,5 m. All functions can be selected. WxDxH 120x60x15 mm. Batteries included, 2 x 1,5 V AAA

Technical data

- Backlit LCD display, digit height 23 mm
- Dimensions housing WxDxH 150x145x160 mm
- Total height from loop to hook 380 mm (KERN HUS 600K200: 400 mm)
- Precision: 0.2 % from [Max]
- Net weight approx. 4 kg
- Permissible ambient temperature 0°C / 40°C

13

STANDARD

- CAL EXT
- ACCU
- 230 V
- 0.00
- TARE
- DMS

STANDARD

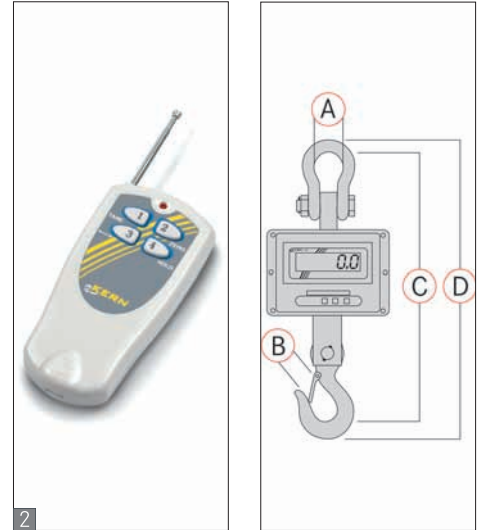
- 1 DAY
- 2 YEARS GUARANTY

OPTION

- DKD +3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
				DKD KERN	€
HUS 150K50	150	50	370,-	963-129	95,-
HUS 300K100	300	100	390,-	963-129	95,-
HUS 600K200	600	200	410,-	963-130	150,-

Crane scale KERN HFM



High resolution industrial crane scale up to 10 t

Features

- With the TÜV/GS certification mark, the scale meets the requirements of the German Equipment and Product Safety Act (Geräte- und Produktsicherheitsgesetz, GPSG) and has been tested in accordance with EN 13155 (Non-fixed load lifting attachments) and EN 61010-1 (Elektrische Sicherheit).
- Professional device for robust applications in production, quality control, logistics, etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial applications
- High mobility: thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department,...)
- Hook with safety catch, revolving
- Rechargeable battery pack internal, standard, operating time approx. 100 h, charging time approx. 14 h with mains adapter. Charge indicator using LED
- Adaptation to unstable environmental conditions by changing the readout
- Data hold function: When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- Tare: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- Radio remote control standard. Range approx. 20 m. All functions can be selected (excl. ON/OFF). WxDxH 48x10x95 mm. Batteries included, 2 x 1,5 V AAA

Technical data

- Superior display size: digit height 30 mm. Luminescent LED display for easy reading of the weight, even from a distance
- Precision: 0.2 % from [Max]
- Permissible ambient temperature 0°C / 40°C

STANDARD



STANDARD

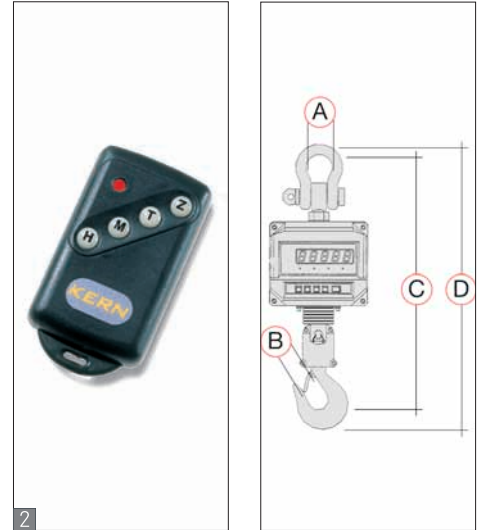


OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Net weight approx. kg	Dimensions				Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
				A	B	C	D		DKD KERN	€
KERN				mm	mm	mm	mm			
HFM 1T0.1	1000	100	15	80	40	540	610	530,-	963-130	150,-
HFM 3T0.5	3000	500	16,5	75	50	540	610	570,-	963-132	400,-
HFM 5T0.5	5000	500	25	75	50	650	730	730,-	963-132	400,-
HFM 10T1	10000	1000	37	100	60	750	840	980,-	963-132	400,-

Crane scale KERN HUM



Ideal for the industry, up to 3 t

Features

- **1** With the TÜV/GS certification mark, the scale meets the requirements of the German Equipment and Product Safety Act (Geräte- und Produktsicherheitsgesetz, GPSG) and has been tested in accordance with EN 13155 (Non-fixed load lifting attachments) and EN 61010-1 (Elektrische Sicherheit)
- Robust metal housing
- Adjusting program CAL, external test weights at an additional price

- Rechargeable battery pack internal, standard, operating time approx. 80 h, charging time approx. 8 h (internal charging with mains adapter). Selectable: AUTO-OFF function or permanent operation
- Data hold function: When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- Tare: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- Hook with safety catch, revolving

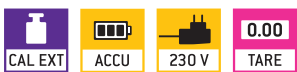
- **2** Radio remote control standard. Range approx. 25 m. All functions can be selected (excl. ON/OFF). WxDxH 65x40x15 mm. Batteries included, 1 x 12V 23A

Technical data

- Luminescent LED display, digit height 25 mm
- Precision: 0.2 % from [Max]
- Permissible ambient temperature 0°C / 40°C

13

STANDARD



STANDARD

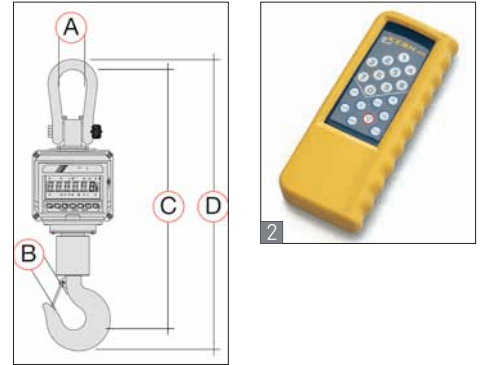


OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Net weight approx. kg	Dimensions housing WxDxH mm	Dimensions				Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
					A mm	B mm	C mm	D mm		DKD KERN	€
KERN HUM1000K500	1000	500	16	210x228x180	56	42	550	620	690,-	963-130	150,-
KERN HUM3000K1000	3000	1000	18	210x228x180	73	45	580	650	820,-	963-132	400,-

Crane scale KERN HTS



Industrial crane scale up to 10 t, IP65, with EC-Type Approval [M]

Features

- **2** Infrared remote control standard. Range approx. 15 m. All functions can be selected (excl. ON). Input via numeric key pad. Incl. protective case. WxDxH 200x80x28 mm. Batteries included, 2 x 1,5 V AAA
- Hook chromed, with safety catch, revolving

- Robust metal housing
- Standby function: automatic switch off of the display after 5 min without a change of load. Automatic activation with the touch of a key
- Display Gross/Tare/Net by means of LEDs
- Further functions: 10 tare or unassigned memory units, e.g. for weight increments or identification numbers, Weighing sum memory (adds individual weighing results), Peak load display (peak hold)

- Data hold function: the weight display is „frozen“ by double-pressing a key, until the „C“ key is pressed
- Charge condition indicator using three-colour LED

Options

- Rechargeable battery pack internal, standard, operating time approx. 150 h, charging time approx. 15 h. For models with Max ≤ 1.500 kg internal with mains adapter. Can be reordered, **KERN HTS-A01, € 90,-**
- For models with Max ≤ 3.000 kg external through battery charger.. Can be reordered, **KERN HTS-A02, € 165,-**

Technical data

- Luminescent LED display, digit height 30 mm
- Precision: 0.1 % from [Max]

1 Only while stocks last

STANDARD					STANDARD		OPTION		FACTORY	

Model	Weighing range [Max] kg	Read-out [d] = [e] g	Minimum load [Min] kg	Net weight approx. kg	Dimensions housing WxDxH mm	Dimensions				Price excl. of VAT ex works €	Options			
						A	B	C	D		Verification		DKD Calibr. Certificate	
						mm	mm	mm	mm			€	DKD KERN	€
HTS 150K50IP	150	50	-	11,5	200x204x160	45	30	435	480	670,-	-	-	963-129	95,-
HTS 300K100IP	300	100	-	11,5	200x204x160	45	30	435	480	700,-	-	-	963-129	95,-
HTS 600K200IP	600	200	-	12	200x204x160	45	30	435	480	730,-	-	-	963-130	150,-
HTS 1.5T0.5IP	1500	500	-	13	200x204x160	60	28	443	505	1020,-	-	-	963-130	150,-
HTS 3T1IP	3000	1000	-	41	279x254x381	90	45	735	815	1510,-	-	-	963-132	400,-
HTS 6T2IP	6000	2000	-	65	279x254x381	100	67	900	1040	1900,-	-	-	963-132	400,-
HTS 10T5IP	10000	5000	-	65	279x254x381	100	67	900	1040	2130,-	-	-	963-132	400,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.														
HTS 150K50IPM	150	50	1	11,5	200x204x160	45	30	435	480	740,-	950-129	75,-	963-129	95,-
HTS 300K100IPM	300	100	2	11,5	200x204x160	45	30	435	480	770,-	950-129	75,-	963-129	95,-
HTS 600K200IPM	600	200	4	12	200x204x160	45	30	435	480	800,-	950-130	120,-	963-130	150,-
HTS 1.5T0.5IPM	1500	500	10	13	200x204x160	60	28	443	505	1090,-	950-130	120,-	963-130	150,-
HTS 3T1IPM	3000	1000	20	41	279x254x381	90	45	735	815	1580,-	950-132	400,-	963-132	400,-
HTS 6T2IPM	6000	2000	40	65	279x254x381	100	67	900	1040	1970,-	950-132	400,-	963-132	400,-
HTS 10T5IPM	10000	5000	100	65	279x254x381	100	67	900	1040	2200,-	950-132	400,-	963-132	400,-

14 Accessories



KERN Model	Page
Label printer YKL-01	125
Matrix needle printer 911-013	125
Standard printer YKB-01N	125
Statistics printer YKS-01, YKT-01	31/125
Glove 317-280	145
Ioniser to neutralise electrostatic charge YBI-01	31
Tweezers 315-242, 315-243, 315-245, 335-240	145
Board for suspended weighing 904-101	126

KERN Model	Page
Plummet 152-532	126
Interface cable	126
Software Balance Connection SCE-4.0	126
Dust brush 318-270	145
Universal carrying case for scales MPS-A07, YPS-02	126
Weighing table YPS-01	31
Second display YKD-A01	126



Individual header data If noted on the balance, for printers **KERN 911-013, YKB, YKL** the free software **KERN SHM-01** (see www.kern-sohn.com) can be used to print 4 header lines on the printout. Compatible models: KERN 440, BTBP, BTSP, BTTP, CME, CDE, DE, FCB, FTB, FTC, FKB-A, ITB, ITS, ITT, KMB-TM, KMS-TM, KMT-TM, NDE, PCB.



KERN 911-013

Matrix needle printer

for KERN balances with data interface RS 232C for transmission of weighing data. Printout suitable for a longterm storage.

Technical data:

- Paper stripes: 57 mm wide
- Dimensions: WxDxH 105x180x90 mm
- Operation by mains adapter 230V/50Hz (standard)

Please state balance model so the printer can be preconfigured.

Price without interface cable, **KERN 911-013, € 330,-**

Accessories:

Paper rolls (10 pcs.), **KERN 911-013-010, € 35,-**



KERN YKB-01N

Standard printer

for KERN balances with RS 232 data interface. Printout of date and time. Conform to GLP.

Technical data:

- Heatttransfer printing
- Speed: 0,75 lines/sec and max. 40 characters per line

- Paper stripes: 112 mm wide
- Dimensions: WxDxH 165x140x50 mm
- Operation by mains adapter 230V/50Hz (standard)

Please state balance model so the printer can be preconfigured.

Price without interface cable, **KERN YKB-01N, € 240,-**

Accessories:

Paper rolls (10 pcs.), **YKB-A10, € 35,-**



KERN YKL-01

Label printer

for self-adhesive labels on a roll, for KERN scales, see table for interface cables, column "YKL-01 weighing data print". For models with an interface cable article number in column "YKL-01 barcode print", printout configuration is also available as a factory option **1**:

- 4 header lines for address and company logo
- Gross/Tare/Net weight
- Parts counting
- Barcode

For details on the printout configuration, please refer to www.kern-sohn.com, **KERN YKL-A03, €150,-**

Please state balance model so the printer can be preconfigured.

Price without interface cable, **KERN YKL-01, € 650,-**

Accessories:

Paper rolls with label size:
 WxH 57x51 mm, 1370 pcs., **KERN YKL-A02, € 50,-**
 WxH 57x102 mm, 700 pcs., **KERN YKL-A01, € 60,-**
 WxH 57x32 mm, 2100 pcs., **KERN YKL-A04, € 60,-**



KERN YKS-01

Statistics printer

for balances with RS 232 C data interface (see table on page 126). Quiet thermal printer with 0.75 lines/sec and max. 40 characters per line. GLP record keeping of balance adjustment with date and time print. Numerator; with statistical functions such as count and total of all measurements, minimum and maximum values of the main unit,

range (Max-Min). average value, standard deviations. Available units: mg, g, kg, pcs. Language versions: D, GB, F, PL

Technical data:

- Paper stripes: 112 mm wide
- Dimensions: BxTxH 165x140x50 mm
- Operation by mains adapter 230V/50Hz (standard)

Please state balance model so the printer can be preconfigured.

Price without interface cable, **KERN YKS-01, € 390,-**

Accessories:

Paper rolls (10 pcs.), **KERN YKB-A10, € 35,-**



KERN YKT-01

Statistics printer

for KERN balances with data interface RS 232 C (see table p. 126, column YKT). Quiet and fast standard printer with 5 lines/sec and max. 24 characters per line. Double-spaced display for straightforward dialogue mode. Automatic measured value enquiry, time interval of 1 sec up to 99 h. Measured value memory with max. 999 measured values. Selectable units: mg, g, kg, t, ct, lb. GLP record keeping of the balance adjustment. Display of date

and time. Language versions D, GB, F. With statistical functions **2** such as standard deviation, variance as well as characteristic values such as range "R", totalizing, upper/lower limits (OGW/UGW), process potential (Cp), process capability (Cpk).

Technical data:

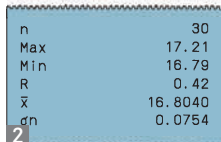
- Paper stripes: 58 mm wide
- Dimensions: BxTxH 116x215x85 mm
- Operation by mains adapter 230V/50Hz (standard)

Please state balance model so the printer can be preconfigured.

Price without interface cable, **KERN YKS-A01, € 820,-**

Accessories:

Paper rolls (10 pcs.), **KERN YKT-01, € 35,-**





Universal carrying case for scales

adjustable to user specification thanks to pre-perforated foam material. Interior measurements WxDxH 520x320x95 mm. Only for scales with strain gauge weighing systems, not suitable as delivery packaging,
KERN YPS-02, € 145,-



Sturdy transport case

for the safe transport and storage of series EOE, EOB scales with weighing plate size $\leq 315 \times 305$ mm without stand; inner dimensions WxDxH 425x315x65 mm,
KERN MPS-A07, € 95,-



Second display

Ideal for training or for demonstration purposes in laboratories or in industry

- Large backlit LCD display digit height 25 mm
- Two additional RS 232 data interfaces
- Interface cable to the scale, length approx. 1.5 m
- Mains adapter, standard
- Dimensions WxDxH 200x100x55 mm

Suitable for models 440, CB, CDE, CME, DE, FCB, FKB...A, NDE, PCB,
KERN YKD-A01, € 95,-



Board for suspended weighing

made of aluminium, with adjustable lower plate, 4 foot screws, WxDxH 350x290x370 mm,
KERN 904-101, € 310,-

Balance Connection

For the direct transmission of balance data to Windows applications (operating systems XP, Vista, Windows 7)

- Transfer via RS 232 to the PC, e.g. to MS Excel
- Transfer at the touch of a key or on a time-controlled basis
- Date and time can be given at any time
- The interface protocols for KERN balances are already predefined
- Interface cable included.

Please specify balance model when ordering (see interface cable table)

Benefits:

- Typing errors during manual transfer, for example, are avoided
- GLP-compliant lab software

KERN SCE-4.0, € 150,-



Ethernet option ... the easy LAN connection

Allows you to connect the scale to an Ethernet network. The IP address, subnet mask and gateway are assigned to the scale manually. DHCP server are not supported.

IMPORTANT: To connect to your network, you need information and support from your network administrator. Discuss the integration of the scale with your network administrator prior to placing your order.

For models ITB/ITS/ITT:

KMB-A01, € 550,-

For models FTB/FTC:

FTB-A09, € 410,-

Plummet

for density determination of liquids. Made of glass, hanging on a platinum wire.

Volume 10 cm³, weight 30 g, length 169 mm, verifiable,

KERN 152-532, € 97,-

Verification, **KERN 950-272, € 32,-**

INTERESTING FACTS ABOUT THE DETERMINATION OF DENSITY ▲

Density determination of liquids and solid matter, in accordance with the buoyancy method, is known for a high degree of accuracy.

Density determination of liquids: by means of measuring the buoyancy with a glass plummet, 10 cm³, resolution 0.0001 g/cm³

Density determination of solid matter: the density is the ratio of weight [g]: Volume [cm³]. The weight is derived by weighing the sample in air.

The volume is determined from the buoyancy [g] of a sample, which is submerged in a liquid. The density [g/cm³] of this liquid is known.

Applications:

- Materials analysis
- Density of porous materials
- Pre-packaged goods check, whenever the merchandise is sold according to volume [cm³]. This volume is calculated from the weight [g]: density [g/cm³].



Interface cable for RS 232, length approx. 1,5 m

Note: The interface cable is free of charge if you purchase the balance and printer together.

Printers →	YKB-01N + PC + 911-013 Order No.	YKS-01 Order No.	YKT-01 Order No.	YKL-01 only weighing data print Order No.	YKL-01 addit. barcode print Order No.	Cabel Price € without VAT ex works
Scale ↓						
440, AL...-A, BTBP, BTSP, BTTP, CME, CDE, DE, FCB, FTB, FTC, FKB-A, ITB, ITS, ITT, KMB-TM, KMS-TM, KMT-TM, NDE, PCB			572-926			46,-
572, 573, CDS, CKE, DS, FKB, FKT, KB, IKT, PL...-A, PL...-F			572-926		-	
BFB, CFS, GAB-N, IFB, KFB-TM, KFN-TM, PFB, UF...			CFS-A01		-	
KFF-T			KFF-A01		-	
EW/EG, FE...*, PE...*, AE...*, *Printer connection (unidirectional)			474-926		-	
ABJ, ABS, ABT, PBS, PBJ			770-926		-	
AL...-N, FEJ, FES, PEJ, PES, AE...			MLB-A05		-	
ALT, ILB, MLB, MLS, PLT, CPB, RPB	MLB-A05	-	-	MLB-A05	-	
BTEP, KME, NTEP, UTEP, KME			MLB-A05		-	
BFS, IFS, KFS-T	CFS-A01	-	-	CFS-A01	-	
CWS	CWS-A02	-	-	CWS-A02	-	
CXP	CXP-A02	-	-	CXP-A02	-	
PRS, PRJ			PR-A23		-	
MRS	PR-A23	-	-	-	-	

15 Test weights

Weights yesterday and today

Weights have always been used to carry out weighing procedures. This original purpose has almost disappeared. Today, weights are used almost exclusively for adjusting and testing = calibration of electronic balances. We therefore call them "Test weights" as this is their purpose of use.

Adjustment or calibration?

Adjusting a balance means that you are intervening in the weighing system, to make sure that the display is set to show the correct nominal value. With calibration, on the other hand, there is no intervention, you are testing whether the display is correct and documenting any deviation. For further information, see the glossary on page 151.

Testing, doing it right!

The internationally valid OIML Directive R111-2004 classifies test weights hierarchically into accuracy classes, where E1 is the most accurate and M3 is the least accurate weight class. With KERN you get the whole test weight range in all OIML accuracy classes E1, E2, F1, F2, M1, M2, M3.

As the appropriate test weight is only classed as checking equipment to ISO 9000ff if it has the relevant proof of accuracy, all KERN test weights come with an appropriate DKD calibration certificate (optional). For further details, see the DKD calibration service section on page 147.

KERN offers you the appropriate test weight package for your balance, consisting of the test weight, box and DKD calibration certificate, as proof of its accuracy ... the best pre-requisite for proper balance calibration.



Information about your KERN test weights

Page

Selection of the appropriate test weight for your balance	128
OIML Directive for weights	129
Denomination table for weight sets	129

Test weights

KERN E1	Milligram weights, individual weights, weight sets	130
KERN E2	Milligram weights, individual weights, weight sets	131
KERN F1	Milligram weights, individual weights, weight sets	133
KERN F2	Milligram weights, individual weights, test weights, weight sets	137
KERN M1	Milligram weights, individual weights, test weights, weight sets	139
KERN M1	Hook weights, slotted weights, beam bars, rectangular weights, heavy duty weights	141
KERN M2	Individual weights, rectangular weights, weight sets	143
KERN M3	Individual weights, cylindrical weights, rectangular weights, weight sets	144

Accessories

Accessories, tweezers, custom-made special boxes, weight carrying cases, weight carriers	145
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Selection of the appropriate test weight for your balance:

Correctly selected test weights with DKD calibration certificate are the pre-requisite for ensuring that your balances are not only correctly adjusted, but also correctly calibrated. Scheduled testing of your balances with such test weights helps to guarantee your quality requirements and to maintain your quality targets.

Here's how you find the right test weight for your balance:

A balance can never be more accurate than the test weight used to adjust it, it depends on its tolerance.

Accuracy of the test weight: Should correspond to the readout *d* of the balance, rather than something better.

Nominal weight value: This is shown in adjust mode „CAL“ in the balance display. Given the choice, the heaviest weight is the most suitable for accurate measurement.

Once accuracy and nominal weight value are specified, the suitable test weight is selected according to the tolerances „Tol“ of the individual accuracy classes E2-M3, see column „Tol ± mg“ at the respective weight and table at page 129.

Example:

Balance with weighing range **Max 2000 g = 2 kg** and readout **d = 0,01 g = 10 mg**

- The accuracy of the required test weight is determined by readout *d* with approx. ±10 mg.
- displayed weight size on „CAL“ mode: 1000 g or 2000 g. The required test weight has a 2 kg weight size.
- suitable test weights with ±10 mg tolerance and 2 kg weight size, stand in accuracy class F1. KERN-No 327-72, see page 134.

Exception, analytical balances (readout *d* ≤ 0,1 mg):

E1 test weights are recommended. Depending on the safety requirements, E2 test weights with a DKD calibration certificate will also be sufficient.

From brass to stainless steel - the right test weight for every situation



Test weight → Features ↓	Cylindrical shape with lifting knob, polished stainless steel	Compact shape with carrying grip, polished stainless steel	Cylindrical shape with lifting knob, polished stainless steel or nickel-plated and polished brass	Compact shape with carrying grip, finely turned stainless steel	Cylindrical shape with lifting knob, finely turned stainless steel	Cylindrical shape with lifting knob, finely turned brass
conforms to OIML R111	yes	yes	yes	no	yes	yes
Available classes	E1, E2	E2, F1	F1	adjusted to F1 error limit class	F2, M1	M1, M2, M3
Upper surface	polished	polished	polished	finely turned	finely turned	finely turned
Material	Stainless steel	Stainless steel	Stainless steel or nickel-plated brass	Stainless steel	Stainless steel	Brass
Adjusting cavity	no	no	yes	yes	yes	yes
Verification possible	yes	yes	yes	no	yes, from 20 g	yes, except M2
Checking equipment for verification purposes	approved	approved	approved	not approved	approved	approved
Ideal as checking equipment in QM systems (e.g. ISO 9000 ff)	yes	yes	yes	yes	yes	yes
Benefits	<ul style="list-style-type: none"> • High-quality test weight for analytical and precision balances • Highly-refined upper surface • Optimum shape of the top for good grip 	<ul style="list-style-type: none"> • Affordable test weight for analytical and precision balances • Highly-refined upper surface • Affordable price 	<ul style="list-style-type: none"> • Optimum, high-quality test weight for precision balances • Optimum shape of the top for good grip 	<ul style="list-style-type: none"> • Affordable test weight for in-house checking of precision balances • Very affordable price 	<ul style="list-style-type: none"> • Optimum test weight for commercial and industrial scales • Optimum shape of the top for good grip 	<ul style="list-style-type: none"> • Affordable test weight for commercial and industrial scales • Optimum shape of the top for good grip

OIML Directive R111-2004 for weights

The key points from the OIML Directive R111-2004

OIML (Organisation Internationale de Metrologie Legale) has established the exact metrological requirements for weights in verified applications in approx. 100 states all over the world. The OIML recommendation R111 (2004 Edition) for weights relates to sizes 1 mg–50 kg. Statements are made on the accuracy, materials, geometric shape, marking and storage of the weights.

Error limits for weights of classes E1 to M3

The error limit classes are in fixed hierarchical levels in the proportion of 1:3, where E1 is the most accurate and M3 is the least accurate weight class. When testing weights with other weights, the correct test class is the next highest class.

Error limit classes (= tolerances)

The values given in the table below (tolerances ± ... mg) are the respective permitted fabrication tolerances. They are to be equal to the measuring uncertainty of the weight, if no DKD calibration certificate is available.

Conventional mass

The problem is the air buoyancy, which makes the weight appear lighter. In order to avoid this "distortion" in daily use, all weights are adjusted to the unit specifications as given in R111, i.e. it is accepted that: material density of the weights is 8000 kg/m³, air density is 1.2 kg/m³ and measuring temperature is 20 °C.

Nominal value ↓	OIML R111-2004 Maximum permissible errors for weights = permissible tolerances „Tol ± mg“						
	E1	E2	F1	F2	M1	M2	M3
1 mg	± 0.003 mg	± 0.006 mg	± 0.020 mg	± 0.06 mg	± 0.20 mg		
2 mg	± 0.003 mg	± 0.006 mg	± 0.020 mg	± 0.06 mg	± 0.20 mg		
5 mg	± 0.003 mg	± 0.006 mg	± 0.020 mg	± 0.06 mg	± 0.20 mg		
10 mg	± 0.003 mg	± 0.008 mg	± 0.025 mg	± 0.08 mg	± 0.25 mg		
20 mg	± 0.003 mg	± 0.010 mg	± 0.03 mg	± 0.10 mg	± 0.3 mg		
50 mg	± 0.004 mg	± 0.012 mg	± 0.04 mg	± 0.12 mg	± 0.4 mg		
100 mg	± 0.005 mg	± 0.016 mg	± 0.05 mg	± 0.16 mg	± 0.5 mg	± 1.6 mg	
200 mg	± 0.006 mg	± 0.020 mg	± 0.06 mg	± 0.20 mg	± 0.6 mg	± 2.0 mg	
500 mg	± 0.008 mg	± 0.025 mg	± 0.08 mg	± 0.25 mg	± 0.8 mg	± 2.5 mg	
1 g	± 0.010 mg	± 0.03 mg	± 0.10 mg	± 0.3 mg	± 1.0 mg	± 3.0 mg	± 10 mg
2 g	± 0.012 mg	± 0.04 mg	± 0.12 mg	± 0.4 mg	± 1.2 mg	± 4.0 mg	± 12 mg
5 g	± 0.016 mg	± 0.05 mg	± 0.16 mg	± 0.5 mg	± 1.6 mg	± 5.0 mg	± 16 mg
10 g	± 0.020 mg	± 0.06 mg	± 0.20 mg	± 0.6 mg	± 2.0 mg	± 6.0 mg	± 20 mg
20 g	± 0.025 mg	± 0.08 mg	± 0.25 mg	± 0.8 mg	± 2.5 mg	± 8.0 mg	± 25 mg
50 g	± 0.03 mg	± 0.10 mg	± 0.3 mg	± 1.0 mg	± 3.0 mg	± 10 mg	± 30 mg
100 g	± 0.05 mg	± 0.16 mg	± 0.5 mg	± 1.6 mg	± 5.0 mg	± 16 mg	± 50 mg
200 g	± 0.10 mg	± 0.3 mg	± 1.0 mg	± 3.0 mg	± 10 mg	± 30 mg	± 100 mg
500 g	± 0.25 mg	± 0.8 mg	± 2.5 mg	± 8.0 mg	± 25 mg	± 80 mg	± 250 mg
1 kg	± 0.5 mg	± 1.6 mg	± 5.0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg
2 kg	± 1.0 mg	± 3.0 mg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg
5 kg	± 2.5 mg	± 8.0 mg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg
10 kg	± 5.0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg
20 kg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g
50 kg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g
100 kg		± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g
200 kg		± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g	± 30 g	± 100 g
500 kg		± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g	± 80 g	± 250 g
1 000 kg		± 1 600 mg	± 5 000 mg	± 16 g	± 50 g	± 160 g	± 500 g
2 000 kg			± 10 g	± 30 g	± 100 g	± 300 g	± 1 000 g
5 000 kg			± 25 g	± 80 g	± 250 g	± 800 g	± 2 500 g

Denomination table, valid for all KERN weight sets from 1 mg

Individual weights per set →																								
	Weight set ↓	mg	mg	mg	mg	mg	mg	mg	mg	mg	mg	mg	g	g	g	g	g	g	g	g	kg	kg	kg	kg
1 mg - 500 mg	Total weight	1,11 g																						
1 mg - 50 g		111,11 g																						
1 mg - 100 g		211,11 g																						
1 mg - 200 g		611,11 g																						
1 mg - 500 g		1.111,11 g																						
1 mg - 1 kg		2.111,11 g																						
1 mg - 2 kg		6.111,11 g																						
1 mg - 5 kg		11.111,11 g																						
1 mg - 10 kg		21.111,11 g																						

Test weights CLASS E1

For E1 weights >1g at the point of initial calibration, a volume determination will be carried out in accordance with OIML.
When recalibrating, this is not required.

Milligram weights, wire shape, stainless steel

- Test weight material: Stainless steel
- Container material: Wood



Milligram weight			+	Box		+	DKD certificate		=	Package price	
KERN	Tol ±mg	€		KERN	€		KERN	€		KERN	€
308-31	1 mg	0,003	52,-	338-090-200	14,-		962-251	50,-		308-311-600	116,-
308-32	2 mg	0,003	52,-	338-090-200	14,-		962-252	50,-		308-321-600	116,-
308-33	5 mg	0,003	52,-	338-090-200	14,-		962-253	50,-		308-331-600	116,-
308-34	10 mg	0,003	52,-	338-090-200	14,-		962-254	50,-		308-341-600	116,-
308-35	20 mg	0,003	52,-	338-090-200	14,-		962-255	50,-		308-351-600	116,-
308-36	50 mg	0,004	52,-	338-090-200	14,-		962-256	50,-		308-361-600	116,-
308-37	100 mg	0,005	52,-	338-090-200	14,-		962-257	50,-		308-371-600	116,-
308-38	200 mg	0,006	52,-	338-090-200	14,-		962-258	50,-		308-381-600	116,-
308-39	500 mg	0,008	52,-	338-090-200	14,-		962-259	50,-		308-391-600	116,-

Individual weights, cylindrical, polished stainless steel

- Test weight material: Polished stainless steel
- Container material: Lined wood



Individual weight			+	Box		+	DKD certificate Initial calibration		=	Package price		DKD certificate Recalibration	
KERN	Tol ±mg	€		KERN	€		KERN	€		KERN	€	KERN	€
307-01	1 g	0,010	83,-	317-010-100	28,-		963-231	191,-		307-011-610	302,-	962-231	50,-
307-02	2 g	0,012	89,-	317-020-100	28,-		963-232	191,-		307-021-610	308,-	962-232	50,-
307-03	5 g	0,016	96,-	317-030-100	28,-		963-233	191,-		307-031-610	315,-	962-233	50,-
307-04	10 g	0,020	104,-	317-040-100	28,-		963-234	191,-		307-041-610	323,-	962-234	50,-
307-05	20 g	0,025	113,-	317-050-100	28,-		963-235	191,-		307-051-610	332,-	962-235	50,-
307-06	50 g	0,030	135,-	317-060-100	28,-		963-236	191,-		307-061-610	354,-	962-236	50,-
307-07	100 g	0,05	162,-	317-070-100	28,-		963-237	191,-		307-071-610	381,-	962-237	50,-
307-08	200 g	0,10	194,-	317-080-100	28,-		963-238	191,-		307-081-610	413,-	962-238	50,-
307-09	500 g	0,25	280,-	317-090-100	31,-		963-239	191,-		307-091-610	502,-	962-239	50,-
307-11	1 kg	0,5	425,-	317-110-100	35,-		963-241	191,-		307-111-610	651,-	962-241	50,-
307-12	2 kg	1,0	630,-	317-120-100	44,-		963-242	465,-		307-121-610	1.139,-	962-242	62,-
307-13	5 kg	2,5	1.060,-	317-130-100	66,-		963-243	465,-		307-131-610	1.591,-	962-243	62,-
307-14	10 kg	5,0	1.530,-	317-140-100	89,-		963-244	465,-		307-141-610	2.084,-	962-244	62,-
307-15	20 kg	10,0	2.160,-	317-150-100	340,-		963-245	1.100,-		307-151-610	3.600,-	962-245	560,-
307-16	50 kg	25,0	4.140,-	317-160-100	415,-		963-246	1.300,-		307-161-610	5.855,-	962-246	630,-

Weight sets, cylindrical shape, polished stainless steel

- Test weight material: Polished stainless steel
- Container material: Lined wood



Weight set		+	DKD certificate Initial calibration		=	Package price		DKD certificate Recalibration	
KERN	€		KERN	€		KERN	€	KERN	€
308-42	1 mg - 500 mg	655,-	962-250	335,-		308-421-600	990,-	962-250	335,-
303-02	1 mg - 50 g	1.540,-	963-201	1.060,-		303-021-610	2.600,-	962-201	540,-
303-03	1 mg - 100 g	1.700,-	963-202	1.160,-		303-031-610	2.860,-	962-202	560,-
303-04	1 mg - 200 g	2.090,-	963-203	1.340,-		303-041-610	3.430,-	962-203	610,-
303-05	1 mg - 500 g	2.420,-	963-204	1.430,-		303-051-610	3.850,-	962-204	640,-
303-06	1 mg - 1 kg	2.840,-	963-205	1.520,-		303-061-610	4.360,-	962-205	670,-
303-07	1 mg - 2 kg	4.150,-	963-206	1.980,-		303-071-610	6.130,-	962-206	720,-
303-08	1 mg - 5 kg	5.300,-	963-207	2.430,-		303-081-610	7.730,-	962-207	740,-
303-09	1 mg - 10 kg	6.890,-	963-208	2.870,-		303-091-610	9.760,-	962-208	770,-
304-02	1 g - 50 g	910,-	963-215	760,-		304-021-610	1.670,-	962-215	235,-
304-03	1 g - 100 g	1.070,-	963-216	850,-		304-031-610	1.920,-	962-216	260,-
304-04	1 g - 200 g	1.460,-	963-217	1.030,-		304-041-610	2.490,-	962-217	310,-
304-05	1 g - 500 g	1.790,-	963-218	1.120,-		304-051-610	2.910,-	962-218	335,-
304-06	1 g - 1 kg	2.210,-	963-219	1.220,-		304-061-610	3.430,-	962-219	360,-
304-07	1 g - 2 kg	3.520,-	963-220	1.760,-		304-071-610	5.280,-	962-220	410,-
304-08	1 g - 5 kg	4.670,-	963-221	2.210,-		304-081-610	6.880,-	962-221	435,-
304-09	1 g - 10 kg	6.260,-	963-222	2.660,-		304-091-610	8.920,-	962-222	465,-

Test weights CLASS E2

Milligram weights, flat polygonal sheet, aluminium/German silver

- Test weight material: Aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- Container material: Lined plastic



Milligram weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
318-01	1 mg	0,006	24,-	347-009-400	2,-	962-351	21,-	318-014-600	47,-						
318-02	2 mg	0,006	24,-	347-009-400	2,-	962-352	21,-	318-024-600	47,-						
318-03	5 mg	0,006	24,-	347-009-400	2,-	962-353	21,-	318-034-600	47,-						
318-04	10 mg	0,008	24,-	347-009-400	2,-	962-354	21,-	318-044-600	47,-						
318-05	20 mg	0,010	24,-	347-009-400	2,-	962-355	21,-	318-054-600	47,-						
318-06	50 mg	0,012	24,-	347-009-400	2,-	962-356	21,-	318-064-600	47,-						
318-07	100 mg	0,016	24,-	347-009-400	2,-	962-357	21,-	318-074-600	47,-						
318-08	200 mg	0,020	24,-	347-009-400	2,-	962-358	21,-	318-084-600	47,-						
318-09	500 mg	0,025	24,-	347-009-400	2,-	962-359	21,-	318-094-600	47,-						

Individual weights, compact shape, polished stainless steel

- Test weight material: Polished stainless steel
- Container material: Lined plastic or wooden box (317-140-100)



Individual weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
316-01	1 g	0,03	33,-	317-020-400	6,-	962-331	21,-	316-014-600	60,-						
316-02	2 g	0,04	35,-	317-020-400	6,-	962-332	21,-	316-024-600	62,-						
316-03	5 g	0,05	37,-	317-030-400	6,-	962-333	21,-	316-034-600	64,-						
316-04	10 g	0,06	39,-	317-040-400	6,-	962-334	21,-	316-044-600	66,-						
316-05	20 g	0,08	45,-	317-050-400	6,-	962-335	21,-	316-054-600	72,-						
316-06	50 g	0,10	48,-	317-060-400	6,-	962-336	21,-	316-064-600	75,-						
316-07	100 g	0,16	52,-	317-070-400	6,-	962-337	21,-	316-074-600	79,-						
316-08	200 g	0,30	66,-	317-080-400	6,-	962-338	21,-	316-084-600	93,-						
316-09	500 g	0,8	111,-	317-090-400	9,-	962-339	21,-	316-094-600	141,-						
316-11	1 kg	1,6	161,-	317-110-400	9,-	962-341	21,-	316-114-600	191,-						
316-12	2 kg	3,0	260,-	317-120-400	9,-	962-342	26,-	316-124-600	295,-						
316-13	5 kg	8,0	375,-	317-130-400	15,-	962-343	26,-	316-134-600	416,-						
316-14	10 kg	16,0	530,-	317-140-100	89,-	962-344	26,-	316-141-600	645,-						

Individual weights, cylindrical shape, polished stainless steel

- Test weight material: Polished stainless steel
- Container material: Lined plastic or wooden box (317-140-100 to 317-160-100)



Individual weight				Container		DKD certificate		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€
317-01	1 g	0,03	47,-	317-020-400	6,-	962-331	21,-	317-011-600	74,-
317-02	2 g	0,04	50,-	317-020-400	6,-	962-332	21,-	317-024-600	77,-
317-03	5 g	0,05	54,-	317-030-400	6,-	962-333	21,-	317-034-600	81,-
317-04	10 g	0,06	56,-	317-040-400	6,-	962-334	21,-	317-044-600	83,-
317-05	20 g	0,08	65,-	317-050-400	6,-	962-335	21,-	317-054-600	92,-
317-06	50 g	0,10	76,-	317-060-400	6,-	962-336	21,-	317-064-600	103,-
317-07	100 g	0,16	82,-	317-070-400	6,-	962-337	21,-	317-074-600	109,-
317-08	200 g	0,30	104,-	317-080-400	6,-	962-338	21,-	317-084-600	131,-
317-09	500 g	0,8	175,-	317-090-400	9,-	962-339	21,-	317-094-600	205,-
317-11	1 kg	1,6	260,-	317-110-400	9,-	962-341	21,-	317-114-600	290,-
317-12	2 kg	3,0	415,-	317-120-400	9,-	962-342	26,-	317-124-600	450,-
317-13	5 kg	8,0	590,-	317-130-400	15,-	962-343	26,-	317-134-600	631,-
317-14	10 kg	16,0	850,-	317-140-100	89,-	962-344	26,-	317-141-600	965,-
317-15	20 kg	30,0	1.340,-	317-150-100	340,-	962-345	30,-	317-151-600	1.710,-
317-16	50 kg	80,0	2.780,-	317-160-100	415,-	962-346	62,-	317-161-600	3.257,-

For individual weights, wooden boxes are also available as an alternative to the plastic containers.

For more details on this, please see page 145.

Test weights
CLASS E2

Weight sets, compact shape, polished stainless steel



- Test weight material: Polished stainless steel
- Case material: Plastic

Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€		
312-024	1 g - 50 g	370,-	962-315	119,-	312-024-600	489,-				
312-034	1 g - 100 g	410,-	962-316	132,-	312-034-600	542,-				
312-044	1 g - 200 g	500,-	962-317	158,-	312-044-600	658,-				
312-054	1 g - 500 g	610,-	962-318	171,-	312-054-600	781,-				
312-064	1 g - 1 kg	810,-	962-319	184,-	312-064-600	994,-				
312-074	1 g - 2 kg	1.310,-	962-320	210,-	312-074-600	1.520,-				
312-084	1 g - 5 kg	1.650,-	962-321	225,-	312-084-600	1.875,-				

Weight sets, cylindrical shape, polished stainless steel



- Test weight material: Individual weights - polished stainless steel, milligram weights - aluminium/German silver
- Case material: Plastic. Milligram weights 1 mg - 500 mg in removable plastic box

Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€		
318-22	1 mg - 500 mg	320,-	962-350	171,-	318-221-600	491,-				
313-024	1 mg - 50 g	820,-	962-301	275,-	313-024-600	1.095,-				
313-034	1 mg - 100 g	910,-	962-302	290,-	313-034-600	1.200,-				
313-044	1 mg - 200 g	1.110,-	962-303	315,-	313-044-600	1.425,-				
313-054	1 mg - 500 g	1.270,-	962-304	325,-	313-054-600	1.595,-				
313-064	1 mg - 1 kg	1.630,-	962-305	340,-	313-064-600	1.970,-				
313-074	1 mg - 2 kg	2.460,-	962-306	365,-	313-074-600	2.825,-				
313-084	1 mg - 5 kg	3.050,-	962-307	380,-	313-084-600	3.430,-				
314-024	1 g - 50 g	540,-	962-315	119,-	314-024-600	659,-				
314-034	1 g - 100 g	620,-	962-316	132,-	314-034-600	752,-				
314-044	1 g - 200 g	830,-	962-317	158,-	314-044-600	988,-				
314-054	1 g - 500 g	1.010,-	962-318	171,-	314-054-600	1.181,-				
314-064	1 g - 1 kg	1.340,-	962-319	184,-	314-064-600	1.524,-				
314-074	1 g - 2 kg	2.180,-	962-320	210,-	314-074-600	2.390,-				
314-084	1 g - 5 kg	2.760,-	962-321	225,-	314-084-600	2.985,-				

Weight sets, cylindrical shape, polished stainless steel



- Test weight material: Individual weights - polished stainless steel, milligram weights - aluminium/German silver
- Box material: Lined wood. Milligram weights 1 mg - 500 mg in removable plastic box

Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€		
318-22	1 mg - 500 mg	320,-	962-350	171,-	318-221-600	491,-				
313-02	1 mg - 50 g	880,-	962-301	275,-	313-021-600	1.155,-				
313-03	1 mg - 100 g	960,-	962-302	290,-	313-031-600	1.250,-				
313-04	1 mg - 200 g	1.170,-	962-303	315,-	313-041-600	1.485,-				
313-05	1 mg - 500 g	1.400,-	962-304	325,-	313-051-600	1.725,-				
313-06	1 mg - 1 kg	1.670,-	962-305	340,-	313-061-600	2.010,-				
313-07	1 mg - 2 kg	2.550,-	962-306	365,-	313-071-600	2.915,-				
313-08	1 mg - 5 kg	3.250,-	962-307	380,-	313-081-600	3.630,-				
313-09	1 mg - 10 kg	4.180,-	962-308	390,-	313-091-600	4.570,-				
314-02	1 g - 50 g	590,-	962-315	119,-	314-021-600	709,-				
314-03	1 g - 100 g	670,-	962-316	132,-	314-031-600	802,-				
314-04	1 g - 200 g	880,-	962-317	158,-	314-041-600	1.038,-				
314-05	1 g - 500 g	1.120,-	962-318	171,-	314-051-600	1.291,-				
314-06	1 g - 1 kg	1.380,-	962-319	184,-	314-061-600	1.564,-				
314-07	1 g - 2 kg	2.260,-	962-320	210,-	314-071-600	2.470,-				
314-08	1 g - 5 kg	2.960,-	962-321	225,-	314-081-600	3.185,-				
314-09	1 g - 10 kg	3.890,-	962-322	235,-	314-091-600	4.125,-				

Test weights CLASS F1

Milligram weights, flat polygonal sheet, aluminium/German silver

- Test weight material: Aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- Container material: Lined plastic



Milligram weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN		€	KERN		€	KERN		€	KERN		€
328-01	1 mg	0,020	11,-	347-009-400	2,-	962-451	15,-	328-014-600	28,-						
328-02	2 mg	0,020	11,-	347-009-400	2,-	962-452	15,-	328-024-600	28,-						
328-03	5 mg	0,020	11,-	347-009-400	2,-	962-453	15,-	328-034-600	28,-						
328-04	10 mg	0,025	11,-	347-009-400	2,-	962-454	15,-	328-044-600	28,-						
328-05	20 mg	0,030	11,-	347-009-400	2,-	962-455	15,-	328-054-600	28,-						
328-06	50 mg	0,040	11,-	347-009-400	2,-	962-456	15,-	328-064-600	28,-						
328-07	100 mg	0,050	11,-	347-009-400	2,-	962-457	15,-	328-074-600	28,-						
328-08	200 mg	0,060	11,-	347-009-400	2,-	962-458	15,-	328-084-600	28,-						
328-09	500 mg	0,080	11,-	347-009-400	2,-	962-459	15,-	328-094-600	28,-						

Individual weights, compact shape, finely turned stainless steel

- Test weight material: Finely turned stainless steel
- Container material: Lined plastic
- Build type: Not in accordance with OIML, adjusted to error limit class F1



NEW



Individual weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN		€	KERN		€	KERN		€	KERN		€
329-01	1 g	0,10	18,-	347-030-400	2,-	962-431N	15,-	329-014-600	35,-						
329-02	2 g	0,12	19,-	347-030-400	2,-	962-432N	15,-	329-024-600	36,-						
329-03	5 g	0,16	20,-	347-030-400	2,-	962-433N	15,-	329-034-600	37,-						
329-04	10 g	0,20	23,-	347-050-400	2,-	962-434N	15,-	329-044-600	40,-						
329-05	20 g	0,25	25,-	347-050-400	2,-	962-435N	15,-	329-054-600	42,-						
329-06	50 g	0,30	27,-	347-070-400	2,-	962-436N	15,-	329-064-600	44,-						
329-07	100 g	0,50	31,-	347-070-400	2,-	962-437N	15,-	329-074-600	48,-						
329-08	200 g	1	41,-	347-080-400	2,-	962-438N	15,-	329-084-600	58,-						
329-09	500 g	2,50	58,-	347-090-400	3,-	962-439N	15,-	329-094-600	76,-						
329-11	1 kg	5	83,-	347-110-400	3,-	962-441N	15,-	329-114-600	101,-						
329-12	2 kg	10	127,-	347-120-400	3,-	962-442N	17,-	329-124-600	147,-						
329-13	5 kg	25	218,-	347-130-400	9,-	962-443N	17,-	329-134-600	244,-						
329-14	10 kg	50	412,-	347-140-400	9,-	962-444N	17,-	329-144-600	438,-						

Individual weights, compact shape, polished stainless steel

- Test weight material: Polished stainless steel
- Container material: Lined plastic



Individual weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN		€	KERN		€	KERN		€	KERN		€
326-01	1 g	0,10	22,-	347-030-400	2,-	962-431	15,-	326-014-600	39,-						
326-02	2 g	0,12	23,-	347-030-400	2,-	962-432	15,-	326-024-600	40,-						
326-03	5 g	0,16	25,-	347-030-400	2,-	962-433	15,-	326-034-600	42,-						
326-04	10 g	0,20	28,-	347-050-400	2,-	962-434	15,-	326-044-600	45,-						
326-05	20 g	0,25	29,-	347-050-400	2,-	962-435	15,-	326-054-600	46,-						
326-06	50 g	0,30	32,-	347-070-400	2,-	962-436	15,-	326-064-600	49,-						
326-07	100 g	0,50	36,-	347-070-400	2,-	962-437	15,-	326-074-600	53,-						
326-08	200 g	1	49,-	347-080-400	2,-	962-438	15,-	326-084-600	66,-						
326-09	500 g	2,50	68,-	347-090-400	3,-	962-439	15,-	326-094-600	86,-						
326-11	1 kg	5	101,-	347-110-400	3,-	962-441	15,-	326-114-600	119,-						
326-12	2 kg	10	150,-	347-120-400	3,-	962-442	17,-	326-124-600	170,-						
326-13	5 kg	25	257,-	347-130-400	9,-	962-443	17,-	326-134-600	283,-						
326-14	10 kg	50	485,-	347-140-400	9,-	962-444	17,-	326-144-600	511,-						

For individual weights, wooden boxes are also available as an alternative to the plastic containers.
For more details on this, please see page 143.

Test weights CLASS F1

Individual weights, cylindrical shape, nickel-plated and polished brass

- Test weight material: Nickel-plated and polished brass
- Container material: Lined plastic or lined wooden box (317-150-100, 317-160-100)



Individual weight			+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	
327-61	1 g	0,10	23,-	347-030-400	2,-	962-431	15,-	327-614-600	40,-					
327-62	2 g	0,12	24,-	347-030-400	2,-	962-432	15,-	327-624-600	41,-					
327-63	5 g	0,16	26,-	347-030-400	2,-	962-433	15,-	327-634-600	43,-					
327-64	10 g	0,20	29,-	347-050-400	2,-	962-434	15,-	327-644-600	46,-					
327-65	20 g	0,25	31,-	347-050-400	2,-	962-435	15,-	327-654-600	48,-					
327-66	50 g	0,30	34,-	347-070-400	2,-	962-436	15,-	327-664-600	51,-					
327-67	100 g	0,50	38,-	347-070-400	2,-	962-437	15,-	327-674-600	55,-					
327-68	200 g	1	52,-	347-080-400	2,-	962-438	15,-	327-684-600	69,-					
327-69	500 g	2,50	72,-	347-090-400	3,-	962-439	15,-	327-694-600	90,-					
327-71	1 kg	5	106,-	347-110-400	3,-	962-441	15,-	327-714-600	124,-					
327-72	2 kg	10	158,-	347-120-400	3,-	962-442	17,-	327-724-600	178,-					
327-73	5 kg	25	270,-	347-130-400	9,-	962-443	17,-	327-734-600	296,-					
327-74	10 kg	50	510,-	347-140-400	9,-	962-444	17,-	327-744-600	536,-					
327-75	20 kg	100	960,-	317-150-100	340,-	962-445	24,-	327-751-600	1.324,-					
327-76	50 kg	250	1.800,-	317-160-100	415,-	962-446	38,-	327-761-600	2.253,-					

Individual weights, cylindrical shape, polished stainless steel

- Test weight material: Polished stainless steel
- Container material: Lined plastic or wooden box (317-150-100, 317-160-100)



Individual weight			+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	
327-01	1 g	0,10	30,-	347-030-400	2,-	962-431	15,-	327-014-600	47,-					
327-02	2 g	0,12	31,-	347-030-400	2,-	962-432	15,-	327-024-600	48,-					
327-03	5 g	0,16	33,-	347-030-400	2,-	962-433	15,-	327-034-600	50,-					
327-04	10 g	0,20	37,-	347-050-400	2,-	962-434	15,-	327-044-600	54,-					
327-05	20 g	0,25	41,-	347-050-400	2,-	962-435	15,-	327-054-600	58,-					
327-06	50 g	0,30	45,-	347-070-400	2,-	962-436	15,-	327-064-600	62,-					
327-07	100 g	0,50	55,-	347-070-400	2,-	962-437	15,-	327-074-600	72,-					
327-08	200 g	1	72,-	347-080-400	2,-	962-438	15,-	327-084-600	89,-					
327-09	500 g	2,50	118,-	347-090-400	3,-	962-439	15,-	327-094-600	136,-					
327-11	1 kg	5	165,-	347-110-400	3,-	962-441	15,-	327-114-600	183,-					
327-12	2 kg	10	250,-	347-120-400	3,-	962-442	17,-	327-124-600	270,-					
327-13	5 kg	25	375,-	347-130-400	9,-	962-443	17,-	327-134-600	401,-					
327-14	10 kg	50	680,-	347-140-400	9,-	962-444	17,-	327-144-600	706,-					
327-15	20 kg	100	1.050,-	317-150-100	340,-	962-445	24,-	327-151-600	1.414,-					
327-16	50 kg	250	2.270,-	317-160-100	415,-	962-446	38,-	327-161-600	2.723,-					

Alternative to plastic container:

Wooden boxes for individual weights. For more details on this, please see page 145.



Test weights
CLASS F1

Weight sets, compact shape, polished stainless steel

- Test weight material: Polished stainless steel
- Case material: Lined plastic



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
322-024	1 g - 50 g	235,-	962-415	64,-	322-024-600	299,-				
322-034	1 g - 100 g	270,-	962-416	69,-	322-034-600	339,-				
322-044	1 g - 200 g	350,-	962-417	78,-	322-044-600	428,-				
322-054	1 g - 500 g	410,-	962-418	83,-	322-054-600	493,-				
322-064	1 g - 1 kg	580,-	962-419	88,-	322-064-600	668,-				
322-074	1 g - 2 kg	810,-	962-420	97,-	322-074-600	907,-				
322-084	1 g - 5 kg	1.030,-	962-421	102,-	322-084-600	1.132,-				

Weight sets, cylindrical shape, nickel-plated and polished brass or polished stainless steel

- Test weight material: Individual weights - nickel-plated and polished brass or polished stainless steel, milligram weights - aluminium 1 mg - 5 mg/German silver 10 mg - 500 mg
- Case material: Lined plastic. Milligram weights 1 mg - 500 mg in removable plastic box



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
328-22	1 mg - 500 mg	175,-	962-450	83,-	328-221-600	258,-				
Nickel-plated and polished brass										
323-624	1 mg - 50 g	400,-	962-401	121,-	323-624-600	521,-				
323-634	1 mg - 100 g	435,-	962-402	126,-	323-634-600	561,-				
323-644	1 mg - 200 g	530,-	962-403	136,-	323-644-600	666,-				
323-654	1 mg - 500 g	590,-	962-404	140,-	323-654-600	730,-				
323-664	1 mg - 1 kg	750,-	962-405	145,-	323-664-600	895,-				
323-674	1 mg - 2 kg	1.030,-	962-406	156,-	323-674-600	1.186,-				
323-684	1 mg - 5 kg	1.270,-	962-407	159,-	323-684-600	1.429,-				
324-624	1 g - 50 g	260,-	962-415	64,-	324-624-600	324,-				
324-634	1 g - 100 g	300,-	962-416	69,-	324-634-600	369,-				
324-644	1 g - 200 g	380,-	962-417	78,-	324-644-600	458,-				
324-654	1 g - 500 g	450,-	962-418	83,-	324-654-600	533,-				
324-664	1 g - 1 kg	630,-	962-419	88,-	324-664-600	718,-				
324-674	1 g - 2 kg	900,-	962-420	97,-	324-674-600	997,-				
324-684	1 g - 5 kg	1.140,-	962-421	102,-	324-684-600	1.242,-				
Polished stainless steel										
323-024	1 mg - 50 g	500,-	962-401	121,-	323-024-600	621,-				
323-034	1 mg - 100 g	560,-	962-402	126,-	323-034-600	686,-				
323-044	1 mg - 200 g	700,-	962-403	136,-	323-044-600	836,-				
323-054	1 mg - 500 g	820,-	962-404	140,-	323-054-600	960,-				
323-064	1 mg - 1 kg	1.070,-	962-405	145,-	323-064-600	1.215,-				
323-074	1 mg - 2 kg	1.570,-	962-406	156,-	323-074-600	1.726,-				
323-084	1 mg - 5 kg	1.920,-	962-407	159,-	323-084-600	2.079,-				
324-024	1 g - 50 g	340,-	962-415	64,-	324-024-600	404,-				
324-034	1 g - 100 g	400,-	962-416	69,-	324-034-600	469,-				
324-044	1 g - 200 g	540,-	962-417	78,-	324-044-600	618,-				
324-054	1 g - 500 g	660,-	962-418	83,-	324-054-600	743,-				
324-064	1 g - 1 kg	890,-	962-419	88,-	324-064-600	978,-				
324-074	1 g - 2 kg	1.400,-	962-420	97,-	324-074-600	1.497,-				
324-084	1 g - 5 kg	1.750,-	962-421	102,-	324-084-600	1.852,-				

Test weights CLASS F1

Weight sets, cylindrical shape, nickel-plated and polished brass or polished stainless steel

- **Test weight material:** Individual weights - nickel-plated and polished brass or polished stainless steel, milligram weights - aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- **Box material:** Lined wood. Milligram weights 1 mg - 500 mg in removable plastic box



Weight set			+ DKD certificate		= Package price	
KERN		€	KERN	€	KERN	€
Nickel-plated and polished brass						
328-22	1 mg - 500 mg	175,-	962-450	83,-	328-221-600	258,-
323-62	1 mg - 50 g	455,-	962-401	121,-	323-621-600	576,-
323-63	1 mg - 100 g	485,-	962-402	126,-	323-631-600	611,-
323-64	1 mg - 200 g	580,-	962-403	136,-	323-641-600	716,-
323-65	1 mg - 500 g	700,-	962-404	140,-	323-651-600	840,-
323-66	1 mg - 1 kg	790,-	962-405	145,-	323-661-600	935,-
323-67	1 mg - 2 kg	1.120,-	962-406	156,-	323-671-600	1.276,-
323-68	1 mg - 5 kg	1.470,-	962-407	159,-	323-681-600	1.629,-
323-69	1 mg - 10 kg	1.990,-	962-408	164,-	323-691-600	2.154,-
324-62	1 g - 50 g	310,-	962-415	64,-	324-621-600	374,-
324-63	1 g - 100 g	350,-	962-416	69,-	324-631-600	419,-
324-64	1 g - 200 g	435,-	962-417	78,-	324-641-600	513,-
324-65	1 g - 500 g	560,-	962-418	83,-	324-651-600	643,-
324-66	1 g - 1 kg	660,-	962-419	88,-	324-661-600	748,-
324-67	1 g - 2 kg	980,-	962-420	97,-	324-671-600	1.077,-
324-68	1 g - 5 kg	1.330,-	962-421	102,-	324-681-600	1.432,-
324-69	1 g - 10 kg	1.850,-	962-422	107,-	324-691-600	1.957,-
Polished stainless steel						
323-02	1 mg - 50 g	560,-	962-401	121,-	323-021-600	681,-
323-03	1 mg - 100 g	610,-	962-402	126,-	323-031-600	736,-
323-04	1 mg - 200 g	750,-	962-403	136,-	323-041-600	886,-
323-05	1 mg - 500 g	930,-	962-404	140,-	323-051-600	1.070,-
323-06	1 mg - 1 kg	1.100,-	962-405	145,-	323-061-600	1.245,-
323-07	1 mg - 2 kg	1.650,-	962-406	156,-	323-071-600	1.806,-
323-08	1 mg - 5 kg	2.110,-	962-407	159,-	323-081-600	2.269,-
323-09	1 mg - 10 kg	2.880,-	962-408	164,-	323-091-600	3.044,-
324-02	1 g - 50 g	390,-	962-415	64,-	324-021-600	454,-
324-03	1 g - 100 g	450,-	962-416	69,-	324-031-600	519,-
324-04	1 g - 200 g	600,-	962-417	78,-	324-041-600	678,-
324-05	1 g - 500 g	760,-	962-418	83,-	324-051-600	843,-
324-06	1 g - 1 kg	940,-	962-419	88,-	324-061-600	1.028,-
324-07	1 g - 2 kg	1.480,-	962-420	97,-	324-071-600	1.577,-
324-08	1 g - 5 kg	1.950,-	962-421	102,-	324-081-600	2.052,-
324-09	1 g - 10 kg	2.710,-	962-422	107,-	324-091-600	2.817,-



You can make up your own individual weight set yourself:

It contains only the weights which you need for testing purposes. KERN will make your own personal box out of plastic, wood or aluminium. For more details on this, please see page 146.

Test weights CLASS F2

Milligram weights, flat polygonal sheet, aluminium/German silver

- Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
- Container material: Lined plastic



Milligram weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€		€
338-01	1 mg	0,06	10,-	347-009-400	2,-	962-451	15,-	338-014-600	27,-						
338-02	2 mg	0,06	10,-	347-009-400	2,-	962-452	15,-	338-024-600	27,-						
338-03	5 mg	0,06	10,-	347-009-400	2,-	962-453	15,-	338-034-600	27,-						
338-04	10 mg	0,08	10,-	347-009-400	2,-	962-454	15,-	338-044-600	27,-						
338-05	20 mg	0,10	10,-	347-009-400	2,-	962-455	15,-	338-054-600	27,-						
338-06	50 mg	0,12	10,-	347-009-400	2,-	962-456	15,-	338-064-600	27,-						
338-07	100 mg	0,16	10,-	347-009-400	2,-	962-457	15,-	338-074-600	27,-						
338-08	200 mg	0,20	10,-	347-009-400	2,-	962-458	15,-	338-084-600	27,-						
338-09	500 mg	0,25	10,-	347-009-400	2,-	962-459	15,-	338-094-600	27,-						

Individual weights, cylindrical shape, finely turned stainless steel

- Test weight material: Finely turned stainless steel
- Container material: Lined plastic or wooden box (337-150-200, 337-160-200)



Individual weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€		€
337-01	1 g	0,3	19,-	347-030-400	2,-	962-431	15,-	337-014-600	36,-						
337-02	2 g	0,4	20,-	347-030-400	2,-	962-432	15,-	337-024-600	37,-						
337-03	5 g	0,5	22,-	347-030-400	2,-	962-433	15,-	337-034-600	39,-						
337-04	10 g	0,6	24,-	347-050-400	2,-	962-434	15,-	337-044-600	41,-						
337-05	20 g	0,8	26,-	347-050-400	2,-	962-435	15,-	337-054-600	43,-						
337-06	50 g	1,0	28,-	347-070-400	2,-	962-436	15,-	337-064-600	45,-						
337-07	100 g	1,6	32,-	347-070-400	2,-	962-437	15,-	337-074-600	49,-						
337-08	200 g	3,0	42,-	347-080-400	2,-	962-438	15,-	337-084-600	59,-						
337-09	500 g	8,0	60,-	347-090-400	3,-	962-439	15,-	337-094-600	78,-						
337-11	1 kg	16	84,-	347-110-400	3,-	962-441	15,-	337-114-600	102,-						
337-12	2 kg	30	129,-	347-120-400	3,-	962-442	17,-	337-124-600	149,-						
337-13	5 kg	80	220,-	347-130-400	9,-	962-443	17,-	337-134-600	246,-						
337-14	10 kg	160	415,-	347-140-400	9,-	962-444	17,-	337-144-600	441,-						
337-15	20 kg	300	710,-	337-150-200	220,-	962-445	24,-	337-152-600	954,-						
337-16	50 kg	800	1.290,-	337-160-200	345,-	962-446	38,-	337-162-600	1.673,-						



Alternative to plastic container:

Wooden boxes for individual weights. For more details on this, please see page 145.

Test weights, stainless steel, stackable



- Test weight material: Stainless steel

Test weight					+		DKD certificate	
KERN		Tol ±mg	Dim. Ø x H	€	KERN	€		€
337-141	10 kg	160	137 x 132 mm	550,-	962-444	17,-		
337-151	20 kg	300	137 x 217 mm	670,-	962-445	24,-		
337-161	50 kg	800	198 x 250 mm	1.790,-	962-446	38,-		

CLASS F2

Weight sets, cylindrical shape, finely turned stainless steel

- **Test weight material:** Individual weights - finely turned stainless steel, milligram weights - aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- **Case material:** Lined plastic. Milligram weights 1 mg - 500 mg in removable plastic box



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
338-22	1 mg - 500 mg	143,-	962-450	83,-	338-224-600	226,-				
333-024	1 mg - 50 g	365,-	962-401	121,-	333-024-600	486,-				
333-034	1 mg - 100 g	405,-	962-402	126,-	333-034-600	531,-				
333-044	1 mg - 200 g	495,-	962-403	136,-	333-044-600	631,-				
333-054	1 mg - 500 g	570,-	962-404	140,-	333-054-600	710,-				
333-064	1 mg - 1 kg	690,-	962-405	145,-	333-064-600	835,-				
333-074	1 mg - 2 kg	970,-	962-406	156,-	333-074-600	1.126,-				
333-084	1 mg - 5 kg	1.250,-	962-407	159,-	333-084-600	1.409,-				
334-024	1 g - 50 g	225,-	962-415	64,-	334-024-600	289,-				
334-034	1 g - 100 g	265,-	962-416	69,-	334-034-600	334,-				
334-044	1 g - 200 g	360,-	962-417	78,-	334-044-600	438,-				
334-054	1 g - 500 g	425,-	962-418	83,-	334-054-600	508,-				
334-064	1 g - 1 kg	560,-	962-419	88,-	334-064-600	648,-				
334-074	1 g - 2 kg	850,-	962-420	97,-	334-074-600	947,-				
334-084	1 g - 5 kg	1.120,-	962-421	102,-	334-084-600	1.222,-				

Weight sets, cylindrical shape, finely turned stainless steel

- **Test weight material:** Individual weights - finely turned stainless steel, milligram weights - aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- **Box material:** Wood



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
338-22	1 mg - 500 mg	143,-	962-450	83,-	338-224-600	226,-				
333-02	1 mg - 50 g	365,-	962-401	121,-	333-022-600	486,-				
333-03	1 mg - 100 g	405,-	962-402	126,-	333-032-600	531,-				
333-04	1 mg - 200 g	495,-	962-403	136,-	333-042-600	631,-				
333-05	1 mg - 500 g	570,-	962-404	140,-	333-052-600	710,-				
333-06	1 mg - 1 kg	690,-	962-405	145,-	333-062-600	835,-				
333-07	1 mg - 2 kg	970,-	962-406	156,-	333-072-600	1.126,-				
333-08	1 mg - 5 kg	1.250,-	962-407	159,-	333-082-600	1.409,-				
333-09	1 mg - 10 kg	1.750,-	962-408	164,-	333-092-600	1.914,-				
334-02	1 g - 50 g	225,-	962-415	64,-	334-022-600	289,-				
334-03	1 g - 100 g	265,-	962-416	69,-	334-032-600	334,-				
334-04	1 g - 200 g	360,-	962-417	78,-	334-042-600	438,-				
334-05	1 g - 500 g	425,-	962-418	83,-	334-052-600	508,-				
334-06	1 g - 1 kg	560,-	962-419	88,-	334-062-600	648,-				
334-07	1 g - 2 kg	850,-	962-420	97,-	334-072-600	947,-				
334-08	1 g - 5 kg	1.120,-	962-421	102,-	334-082-600	1.222,-				
334-09	1 g - 10 kg	1.610,-	962-422	107,-	334-092-600	1.717,-				



You can make up your own individual weight set yourself:

It contains only the weights which you need for testing purposes. KERN will make your own personal box out of plastic, wood or aluminium. For more details on this, please see page 146.

Test weights CLASS M1

Milligram weights, flat polygonal sheet, aluminium/German silver

- Test weight material: Aluminium 1 mg - 5 mg/German silver 10 mg - 500 mg
- Container material: Lined plastic



Milligram weight				+		Container		+		DKD certificate		=		Package price	
KERN	Tol ±mg	€		KERN	€	KERN	€	KERN	€	KERN	€	KERN	€		
348-01	1 mg	0,20	4,10	347-009-400	2,-	962-651	13,-	348-014-600	19,10						
348-02	2 mg	0,20	4,10	347-009-400	2,-	962-652	13,-	348-024-600	19,10						
348-03	5 mg	0,20	4,10	347-009-400	2,-	962-653	13,-	348-034-600	19,10						
348-04	10 mg	0,25	4,10	347-009-400	2,-	962-654	13,-	348-044-600	19,10						
348-05	20 mg	0,30	4,10	347-009-400	2,-	962-655	13,-	348-054-600	19,10						
348-06	50 mg	0,40	4,10	347-009-400	2,-	962-656	13,-	348-064-600	19,10						
348-07	100 mg	0,50	4,10	347-009-400	2,-	962-657	13,-	348-074-600	19,10						
348-08	200 mg	0,60	4,10	347-009-400	2,-	962-658	13,-	348-084-600	19,10						
348-09	500 mg	0,80	4,10	347-009-400	2,-	962-659	13,-	348-094-600	19,10						

Individual weights, cylindrical shape, finely turned brass or finely turned stainless steel

- Test weight material: Individual weights - finely turned brass or finely turned stainless steel
- Container material: Lined plastic



Individual weight				+		Container		+		DKD certificate		=		Package price	
KERN	Tol ±mg	€		KERN	€	KERN	€	KERN	€	KERN	€	KERN	€		
Finely turned brass															
347-41	1 g	1,0	4,10	347-030-400	2,-	962-631	13,-	347-414-600	19,10						
347-42	2 g	1,2	4,40	347-030-400	2,-	962-632	13,-	347-424-600	19,40						
347-43	5 g	1,6	4,80	347-030-400	2,-	962-633	13,-	347-434-600	19,80						
347-44	10 g	2,0	5,30	347-050-400	2,-	962-634	13,-	347-444-600	20,30						
347-45	20 g	2,5	5,70	347-050-400	2,-	962-635	13,-	347-454-600	20,70						
347-46	50 g	3,0	6,70	347-070-400	2,-	962-636	13,-	347-464-600	21,70						
347-47	100 g	5,0	8,60	347-070-400	2,-	962-637	13,-	347-474-600	23,60						
347-48	200 g	10	13,00	347-080-400	2,-	962-638	13,-	347-484-600	28,00						
347-49	500 g	25	28,00	347-090-400	3,-	962-639	13,-	347-494-600	44,00						
347-51	1 kg	50	43,00	347-110-400	3,-	962-641	13,-	347-514-600	59,00						
347-52	2 kg	100	77,00	347-120-400	3,-	962-642	13,-	347-524-600	93,00						
347-53	5 kg	250	165,00	347-130-400	9,-	962-643	14,-	347-534-600	188,00						
347-54	10 kg	500	310,00	347-140-400	9,-	962-644	17,-	347-544-600	336,00						
Finely turned stainless steel															
347-01	1 g	1,0	4,60	347-030-400	2,-	962-631	13,-	347-014-600	19,60						
347-02	2 g	1,2	4,90	347-030-400	2,-	962-632	13,-	347-024-600	19,90						
347-03	5 g	1,6	5,40	347-030-400	2,-	962-633	13,-	347-034-600	20,40						
347-04	10 g	2,0	5,80	347-050-400	2,-	962-634	13,-	347-044-600	20,80						
347-05	20 g	2,5	6,50	347-050-400	2,-	962-635	13,-	347-054-600	21,50						
347-06	50 g	3,0	8,20	347-070-400	2,-	962-636	13,-	347-064-600	23,20						
347-07	100 g	5,0	11,00	347-070-400	2,-	962-637	13,-	347-074-600	26,00						
347-08	200 g	10	16,00	347-080-400	2,-	962-638	13,-	347-084-600	31,00						
347-09	500 g	25	34,00	347-090-400	3,-	962-639	13,-	347-094-600	50,00						
347-11	1 kg	50	54,00	347-110-400	3,-	962-641	13,-	347-114-600	70,00						
347-12	2 kg	100	92,00	347-120-400	3,-	962-642	13,-	347-124-600	108,00						
347-13	5 kg	250	196,00	347-130-400	9,-	962-643	14,-	347-134-600	219,00						
347-14	10 kg	500	385,00	347-140-400	9,-	962-644	17,-	347-144-600	411,00						

Test weights, stainless steel, stackable



- Test weight material: Stainless steel

Test weight					+		DKD certificate	
KERN	Tol ±g	Dim. Ø x H	€		KERN	€		
347-141	10 kg	0,50	137 x 132 mm	465,-	962-644	17,-		
347-151	20 kg	1,00	137 x 217 mm	530,-	962-645	21,-		
347-161	50 kg	2,50	198 x 250 mm	1.510,-	962-646	23,-		

CLASS M1

Weight sets, cylindrical shape, finely turned brass or finely turned stainless steel

- **Test weight material:** Individual weights - finely turned brass or finely turned stainless steel, milligram weights - aluminium/German silver
- **Case material:** Plastic. Milligram weights 1 mg - 500 mg in a removable plastic box



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
Finely turned brass										
348-22	1 mg - 500 mg	69,-	962-650	42,-	348-224-600				111,-	
343-424	1 mg - 50 g	149,-	962-601	59,-	343-424-600				208,-	
343-434	1 mg - 100 g	162,-	962-602	68,-	343-434-600				230,-	
343-444	1 mg - 200 g	191,-	962-603	72,-	343-444-600				263,-	
343-454	1 mg - 500 g	220,-	962-604	74,-	343-454-600				294,-	
343-464	1 mg - 1 kg	305,-	962-605	76,-	343-464-600				381,-	
343-474	1 mg - 2 kg	485,-	962-606	81,-	343-474-600				566,-	
343-484	1 mg - 5 kg	710,-	962-607	83,-	343-484-600				793,-	
344-424	1 g - 50 g	81,-	962-615	40,-	344-424-600				121,-	
344-434	1 g - 100 g	94,-	962-616	42,-	344-434-600				136,-	
344-444	1 g - 200 g	124,-	962-617	47,-	344-444-600				171,-	
344-454	1 g - 500 g	158,-	962-618	49,-	344-454-600				207,-	
344-464	1 g - 1 kg	250,-	962-619	51,-	344-464-600				301,-	
344-474	1 g - 2 kg	430,-	962-620	55,-	344-474-600				485,-	
344-484	1 g - 5 kg	650,-	962-621	57,-	344-484-600				707,-	
Finely turned stainless steel										
343-024	1 mg - 50 g	155,-	962-601	59,-	343-024-600				214,-	
343-034	1 mg - 100 g	170,-	962-602	68,-	343-034-600				238,-	
343-044	1 mg - 200 g	205,-	962-603	72,-	343-044-600				277,-	
343-054	1 mg - 500 g	245,-	962-604	74,-	343-054-600				319,-	
343-064	1 mg - 1 kg	335,-	962-605	76,-	343-064-600				411,-	
343-074	1 mg - 2 kg	540,-	962-606	81,-	343-074-600				621,-	
343-084	1 mg - 5 kg	800,-	962-607	83,-	343-084-600				883,-	
344-024	1 g - 50 g	88,-	962-615	40,-	344-024-600				128,-	
344-034	1 g - 100 g	102,-	962-616	42,-	344-034-600				144,-	
344-044	1 g - 200 g	139,-	962-617	47,-	344-044-600				186,-	
344-054	1 g - 500 g	179,-	962-618	49,-	344-054-600				228,-	
344-064	1 g - 1 kg	285,-	962-619	51,-	344-064-600				336,-	
344-074	1 g - 2 kg	490,-	962-620	55,-	344-074-600				545,-	
344-084	1 g - 5 kg	750,-	962-621	57,-	344-084-600				807,-	

Weight sets, cylindrical shape, finely turned brass or finely turned stainless steel

- **Test weight material:** Individual weights - finely turned brass or finely turned stainless steel, milligram weights - aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- **Box material:** Wood



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
Finely turned brass										
348-22	1 mg - 500 mg	69,-	962-650	42,-	348-224-600				111,-	
343-42	1 mg - 50 g	149,-	962-601	59,-	343-422-600				208,-	
343-43	1 mg - 100 g	162,-	962-602	68,-	343-432-600				230,-	
343-44	1 mg - 200 g	191,-	962-603	72,-	343-442-600				263,-	
343-45	1 mg - 500 g	220,-	962-604	74,-	343-452-600				294,-	
343-46	1 mg - 1 kg	305,-	962-605	76,-	343-462-600				381,-	
343-47	1 mg - 2 kg	485,-	962-606	81,-	343-472-600				566,-	
343-48	1 mg - 5 kg	710,-	962-607	83,-	343-482-600				793,-	
343-49	1 mg - 10 kg	1.090,-	962-608	85,-	343-492-600				1.175,-	
344-42	1 g - 50 g	81,-	962-615	40,-	344-422-600				121,-	
344-43	1 g - 100 g	94,-	962-616	42,-	344-432-600				136,-	
344-44	1 g - 200 g	124,-	962-617	47,-	344-442-600				171,-	
344-45	1 g - 500 g	158,-	962-618	49,-	344-452-600				207,-	
344-46	1 g - 1 kg	250,-	962-619	51,-	344-462-600				301,-	
344-47	1 g - 2 kg	430,-	962-620	55,-	344-472-600				485,-	
344-48	1 g - 5 kg	650,-	962-621	57,-	344-482-600				707,-	
344-49	1 g - 10 kg	1.020,-	962-622	59,-	344-492-600				1.079,-	

Test weights CLASS M1

Continuation of weight sets, cylindrical shape, finely turned brass or finely turned stainless steel

Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
Finely turned stainless steel										
343-02	1 mg - 50 g	155,-	962-601	59,-	343-022-600	214,-				
343-03	1 mg - 100g	170,-	962-602	68,-	343-032-600	238,-				
343-04	1 mg - 200 g	205,-	962-603	72,-	343-042-600	277,-				
343-05	1 mg - 500 g	245,-	962-604	74,-	343-052-600	319,-				
343-06	1 mg - 1 kg	335,-	962-605	76,-	343-062-600	411,-				
343-07	1 mg - 2 kg	540,-	962-606	81,-	343-072-600	621,-				
343-08	1 mg - 5 kg	800,-	962-607	83,-	343-082-600	883,-				
343-09	1 mg - 10 kg	1.250,-	962-608	85,-	343-092-600	1.335,-				
344-02	1 g - 50 g	88,-	962-615	40,-	344-022-600	128,-				
344-03	1 g - 100 g	102,-	962-616	42,-	344-032-600	144,-				
344-04	1 g - 200 g	139,-	962-617	47,-	344-042-600	186,-				
344-05	1 g - 500 g	179,-	962-618	49,-	344-052-600	228,-				
344-06	1 g - 1 kg	285,-	962-619	51,-	344-062-600	336,-				
344-07	1 g - 2 kg	490,-	962-620	55,-	344-072-600	545,-				
344-08	1 g - 5 kg	750,-	962-621	57,-	344-082-600	807,-				
344-09	1 g - 10 kg	1.190,-	962-622	59,-	344-092-600	1.249,-				



You can make up your own individual weight set yourself:

It contains only the weights which you need for testing purposes. KERN will make your own personal box out of plastic, wood or aluminium. For more details on this, please see page 146.

Newton weights

All slotted and hook weights are available with N adjustment according to M1 tolerances. Additional price € 8,-.

We need to know the location of use and post code. **DKD-calibration certificate for N weights:** identical to DKD prices for individual weights M1, additional price € 8,-.

Hook weights, finely turned brass

- Test weight material: Finely turned brass
- Container material: Lined plastic



Hook weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
347-416	1 g	1,0	12,-	347-030-400	2,-	962-631	13,-	347-4164-600	27,-						
347-426	2 g	1,2	13,-	347-030-400	2,-	962-632	13,-	347-4264-600	28,-						
347-436	5 g	1,6	14,-	347-030-400	2,-	962-633	13,-	347-4364-600	29,-						
347-446	10 g	2,0	15,-	347-050-400	2,-	962-634	13,-	347-4464-600	30,-						
347-456	20 g	2,5	16,-	347-050-400	2,-	962-635	13,-	347-4564-600	31,-						
347-466	50 g	3,0	20,-	347-070-400	2,-	962-636	13,-	347-4664-600	35,-						
347-476	100 g	5	23,-	347-090-400	3,-	962-637	13,-	347-4764-600	39,-						
347-486	200 g	10	31,-	347-090-400	3,-	962-638	13,-	347-4864-600	47,-						
347-496	500 g	25	43,-	347-110-400	3,-	962-639	13,-	347-4964-600	59,-						
347-516	1 kg	50	63,-	347-120-400	3,-	962-641	13,-	347-5164-600	79,-						
347-526	2 kg	100	104,-	347-130-400	9,-	962-642	13,-	347-5264-600	126,-						
347-536	5 kg	250	180,-	347-140-400	9,-	962-643	14,-	347-5364-600	203,-						
347-546	10 kg	500	350,-	-	-	962-644	17,-	-	-						

Test weights CLASS M1

Slotted weights, finely turned brass

- Test weight material: Finely turned brass
- Container material: Lined plastic



Slotted weight			+		DKD certificate		=		Package price	
KERN	Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€
347-415	1 g	1,0	14,-	347-030-400	2,-	962-631	13,-	347-4154-600	29,-	
347-425	2 g	1,2	15,-	347-030-400	2,-	962-632	13,-	347-4254-600	30,-	
347-435	5 g	1,6	16,-	347-030-400	2,-	962-633	13,-	347-4354-600	31,-	
347-445	10 g	2,0	19,-	347-030-400	2,-	962-634	13,-	347-4454-600	34,-	
347-455	20 g	2,5	20,-	347-080-400	2,-	962-635	13,-	347-4554-600	35,-	
347-465	50 g	3,0	22,-	347-080-400	2,-	962-636	13,-	347-4654-600	37,-	
347-475	100 g	5	25,-	347-090-400	3,-	962-637	13,-	347-4754-600	41,-	
347-485	200 g	10	30,-	347-090-400	3,-	962-638	13,-	347-4854-600	46,-	
347-495	500 g	25	48,-	347-110-400	3,-	962-639	13,-	347-4954-600	64,-	
347-515	1 kg	50	77,-	347-130-400	9,-	962-641	13,-	347-5154-600	99,-	
347-525	2 kg	100	116,-	347-130-400	9,-	962-642	13,-	347-5254-600	138,-	
347-535	5 kg	250	216,-	347-140-400	9,-	962-643	14,-	347-5354-600	239,-	
347-545	10 kg	500	376,-	347-140-400	9,-	962-644	17,-	347-5454-600	402,-	

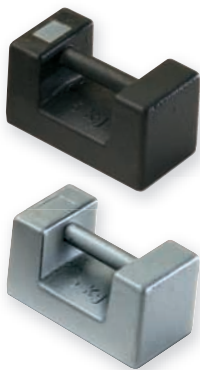
Beam bars, finely turned brass, for fixing slotted weights



- Carrier bar material: Brass, aluminium (347-445-100)

Carrier bar					+ DKD certificate	
	Size	Largest slotted weight possible	Maximum total load	€	KERN	€
347-445-100	10 g	100 g	200 g	30,-	962-634	13,-
347-475-100	100 g	1 kg	2 kg	50,-	962-637	13,-
347-495-100	500 g	10 kg	20 kg	79,-	962-639	13,-
347-515-100	1000 g	10 kg	40 kg	118,-	962-641	13,-

Rectangular weights, lacquered cast iron/stainless steel



- Test weight material: Lacquered cast iron/stainless steel (in OIML classes F1 and F2 on request)

Rectangular weight			+ DKD certificate		= Package price		
KERN	Tol ±mg	€	KERN	€	KERN	€	
Lacquered cast iron							
346-86	5 kg	0,25	62,-	962-643	14,-	346-860-600	76,-
346-87	10 kg	0,50	82,-	962-644	17,-	346-870-600	99,-
346-88	20 kg	1,00	114,-	962-645	21,-	346-880-600	135,-
346-89	50 kg	2,50	310,-	962-646	23,-	346-890-600	333,-
Stainless steel							
346-06	5 kg	0,25	315,-	962-643	14,-	346-060-600	329,-
346-07	10 kg	0,50	455,-	962-644	17,-	346-070-600	472,-
346-08	20 kg	1,00	580,-	962-645	21,-	346-080-600	601,-
346-09	50 kg	2,50	1.490,-	962-646	23,-	346-090-600	1.513,-

Heavy duty weights, cast iron, stackable. Designed to be lifted with forklift trucks or cranes.

- Test weight material: Lacquered cast iron



Heavy duty weight				+ DKD certificate		
KERN	Tol ±g	Dimensions W x D x H	€	KERN	€	
346-81	100 kg	5	340 x 225 x 280 mm	970,-	962-691	60,-
346-82	200 kg	10	465 x 340 x 291 mm	1.270,-	962-692	60,-
346-83	500 kg	25	750 x 500 x 314 mm	2.540,-	962-693	60,-
346-84	1000 kg	50	750 x 500 x 500 mm	3.730,-	962-694	130,-
346-85	2000 kg	100	1000 x 750 x 500 mm	6.060,-	962-695	190,-

Test weights CLASS M2

Individual weights, cylindrical shape, finely turned brass

- Test weight material: Finely turned brass
- Container material: Plastic



Individual weight				+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€
357-41	1 g	3	3,60	347-030-400	2,-	962-631	13,-	357-414-600	18,60		
357-42	2 g	4	3,90	347-030-400	2,-	962-632	13,-	357-424-600	18,90		
357-43	5 g	5	4,30	347-030-400	2,-	962-633	13,-	357-434-600	19,30		
357-44	10 g	6	4,70	347-050-400	2,-	962-634	13,-	357-444-600	19,70		
357-45	20 g	8	5,20	347-050-400	2,-	962-635	13,-	357-454-600	20,20		
357-46	50 g	10	6,20	347-070-400	2,-	962-636	13,-	357-464-600	21,20		
357-47	100 g	16	8,00	347-070-400	2,-	962-637	13,-	357-474-600	23,00		
357-48	200 g	30	12,00	347-080-400	2,-	962-638	13,-	357-484-600	27,00		
357-49	500 g	80	26,00	347-090-400	3,-	962-639	13,-	357-494-600	42,00		
357-51	1 kg	160	41,00	347-110-400	3,-	962-641	13,-	357-514-600	57,00		
357-52	2 kg	300	69,00	347-120-400	3,-	962-642	13,-	357-524-600	85,00		
357-53	5 kg	800	149,00	347-130-400	9,-	962-643	14,-	357-534-600	172,00		
357-54	10 kg	1600	295,00	347-140-400	9,-	962-644	17,-	357-544-600	321,00		



Alternative to plastic container:

Wooden boxes for individual weights. For more details on this, please see page 145.

Rectangular weights, lacquered cast iron



- Test weight material: Lacquered cast iron

Rectangular weight				+		DKD certificate		=		Package price	
KERN		Tol ±g	€	KERN	€	KERN	€	KERN	€	KERN	€
356-86	5 kg	0,8	59,-	962-643	14,-	356-860-600	73,-				
356-87	10 kg	1,6	79,-	962-644	17,-	356-870-600	96,-				
356-88	20 kg	3,0	112,-	962-645	21,-	356-880-600	133,-				
356-89	50 kg	8,0	295,-	962-646	23,-	356-890-600	318,-				

Weight sets, cylindrical shape, finely turned brass

- Test weight material: Finely turned brass
- Box material: Wooden box



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
354-42	1 g - 50 g	78,-	962-615	40,-	354-422-600	118,-				
354-43	1 g - 100 g	89,-	962-616	42,-	354-432-600	131,-				
354-44	1 g - 200 g	117,-	962-617	47,-	354-442-600	164,-				
354-45	1 g - 500 g	149,-	962-618	49,-	354-452-600	198,-				
354-46	1 g - 1 kg	245,-	962-619	51,-	354-462-600	296,-				
354-47	1 g - 2 kg	405,-	962-620	55,-	354-472-600	460,-				
354-48	1 g - 5 kg	610,-	962-621	57,-	354-482-600	667,-				
354-49	1 g - 10 kg	970,-	962-622	59,-	354-492-600	1.029,-				

Test weights CLASS M3

Individual weights, cylindrical shape, finely turned brass

- Test weight material: Finely turned brass
- Container material: Lined plastic



Individual weight			+		DKD certificate		=		Package price	
KERN	Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€
367-41	1 g	10	3,00	347-030-400	2,-	962-631	13,-	367-414-600	18,00	
367-42	2 g	12	3,40	347-030-400	2,-	962-632	13,-	367-424-600	18,40	
367-43	5 g	16	3,80	347-030-400	2,-	962-633	13,-	367-434-600	18,80	
367-44	10 g	20	4,20	347-050-400	2,-	962-634	13,-	367-444-600	19,20	
367-45	20 g	25	4,60	347-050-400	2,-	962-635	13,-	367-454-600	19,60	
367-46	50 g	30	5,40	347-070-400	2,-	962-636	13,-	367-464-600	20,40	
367-47	100 g	50	6,70	347-070-400	2,-	962-637	13,-	367-474-600	21,70	
367-48	200 g	100	9,80	347-080-400	2,-	962-638	13,-	367-484-600	24,80	
367-49	500 g	250	22,00	347-090-400	3,-	962-639	13,-	367-494-600	38,00	
367-51	1 kg	500	35,00	347-110-400	3,-	962-641	13,-	367-514-600	51,00	
367-52	2 kg	1000	59,00	347-120-400	3,-	962-642	13,-	367-524-600	75,00	

Individual weights, cylindrical, lacquered cast iron

- Test weight material: Lacquered cast iron. 20 kg and 50 kg with bracket



Individual weight				+		DKD certificate		=		Package price	
KERN	Tol ±g	€	€	KERN	€	KERN	€	KERN	€	KERN	€
366-91	100 g	0,05	6,20	962-637	13,-	366-910-600	19,20				
366-92	200 g	0,10	8,20	962-638	13,-	366-920-600	21,20				
366-93	500 g	0,25	13,-	962-639	13,-	366-930-600	26,00				
366-94	1 kg	0,50	20,-	962-641	13,-	366-940-600	33,00				
366-95	2 kg	1,0	29,-	962-642	13,-	366-950-600	42,00				
366-96	5 kg	2,5	57,-	962-643	14,-	366-960-600	71,00				
366-97	10 kg	5	88,-	962-644	17,-	366-970-600	105,00				
366-98	20 kg	10	210,-	962-645	21,-	366-980-600	231,00				
366-99	50 kg	25	450,-	962-646	23,-	366-990-600	473,00				

Rectangular weights, lacquered cast iron



- Test weight material: Lacquered cast iron

Rectangular weight				+		DKD certificate		=		Package price	
KERN	Tol ±g	€	€	KERN	€	KERN	€	KERN	€	KERN	€
366-86	5 kg	2,5	57,-	962-643	14,-	366-860-600	71,-				
366-87	10 kg	5	77,-	962-644	17,-	366-870-600	94,-				
366-88	20 kg	10	110,-	962-645	21,-	366-880-600	131,-				
366-89	50 kg	25	290,-	962-646	23,-	366-890-600	313,-				

Weight sets, cylindrical, lacquered brass and cast iron

- Test weight material: Brass lacquered and cast iron
- Container material: Wooden block



Weight set			+		DKD certificate		=		Package price	
KERN	€	€	KERN	€	KERN	€	KERN	€	KERN	€
362-96	1 g - 1 kg	118,-	962-619	51,-	362-963-600	169,-				
362-97	1 g - 2 kg	182,-	962-620	55,-	362-973-600	237,-				
362-98	1 g - 5 kg	245,-	962-621	57,-	362-983-600	302,-				
362-99	1 g - 10 kg	335,-	962-622	59,-	362-993-600	394,-				

Test weights-accessories

Tweezers, weight forks, weight grips, gloves, dusting brush



Tweezers to be able to safely grip small test weights

For weights of the class	For weights	KERN	Length	Version	€
E1 - F1	1 mg - 200 g	315-243	105 mm	Stainless steel with silicone-coated tips	15,00
E1 - F1	500 g - 2 kg	315-245	250 mm	Stainless steel with silicone-coated tips	27,00
F2 - M3	1 mg - 200 g	335-240	100 mm	Stainless steel	6,80
E1 - M1	1 mg - 200 g	315-242	100 mm	Plastic	6,20



Weight fork to be able to better grip the individual, cylindrical weights

KERN	For weights	€
315-253	2 kg	52,-
315-254	5 kg	57,-



Weight carrying handle to be able to safely grip heavy, individual cylindrical weights

KERN	For weights	€
315-264	10 kg	88,-
315-265	20 kg	108,-
315-266	50 kg	290,-



Gloves, cotton. Help to protect the test weights when being used daily, from grease from fingers, damp etc.

KERN	€
317-280	2,10



Dusting brush to clean the weights

KERN	€
318-270	4,20

Wooden boxes for individual weights

- **Box material:** Lined wood.
Suitable for individual weights
KERN No. 307, 317, 327

- **Box material:** Wood.
Suitable for individual weights
KERN No. 337, 347, 357, 367



Wooden box
for individual weights E1 - F1

For weights	KERN	€
mg	338-090-200	14,-
1 g	317-010-100	28,-
2 g	317-020-100	28,-
5 g	317-030-100	28,-
10 g	317-040-100	28,-
20 g	317-050-100	28,-
50 g	317-060-100	28,-
100 g	317-070-100	28,-
200 g	317-080-100	28,-
500 g	317-090-100	31,-
1 kg	317-110-100	35,-
2 kg	317-120-100	44,-
5 kg	317-130-100	66,-
10 kg	317-140-100	89,-
20 kg	317-150-100	340,-
50 kg	317-160-100	415,-



Wooden box
for individual weights F2 - M3

For weights	KERN	€
mg	338-090-200	14,-
1 g	337-010-200	14,-
2 g	337-020-200	14,-
5 g	337-030-200	14,-
10 g	337-040-200	14,-
20 g	337-050-200	14,-
50 g	337-060-200	15,-
100 g	337-070-200	15,-
200 g	337-080-200	16,-
500 g	337-090-200	19,-
1 kg	337-110-200	24,-
2 kg	337-120-200	27,-
5 kg	337-130-200	47,-
10 kg	337-140-200	61,-
20 kg	337-150-200	220,-
50 kg	337-160-200	345,-

Made specially for you

Cases/boxes for individual weight sets

Individual weight sets:

You can make up your own "tailor-made" individual weight sets yourself.

KERN will make your own personal wooden box / plastic carrying case. The largest individual weight which will fit is given in the table.

Sample order:

Your individual weight set: 1 x 50 g, 2 x 100 g, 1 x 500 g, 2 x 1 kg, 1 x 2 kg.

The correct individual box is

KERN No. 313-080-400 (plastic) or

KERN No. 315-070-100 (wood).



Plastic case for weight classes E1, E2 and F1

KERN	For weights	€
313-050-400	≤ 500 g	82,-
313-080-400	≤ 5 kg	180,-



Wooden box for weight classes E1, E2 and F1

KERN	For weights	€
315-040-100	≤ 200 g	124,-
315-060-100	≤ 1 kg	185,-
315-070-100	≤ 2 kg	245,-
315-080-100	≤ 5 kg	350,-
315-090-100	≤ 10 kg	465,-



Plastic case for weight classes F2, M1, M2 and M3

KERN	For weights	€
333-050-400	≤ 500 g	57,-
333-080-400	≤ 5 kg	155,-



Wooden box for weight classes F2, M1, M2 and M3

KERN	For weights	€
335-040-200	≤ 200 g	48,-
335-050-200	≤ 500 g	61,-
335-060-200	≤ 1 kg	108,-
335-070-200	≤ 2 kg	134,-
335-080-200	≤ 5 kg	210,-
335-090-200	≤ 10 kg	300,-

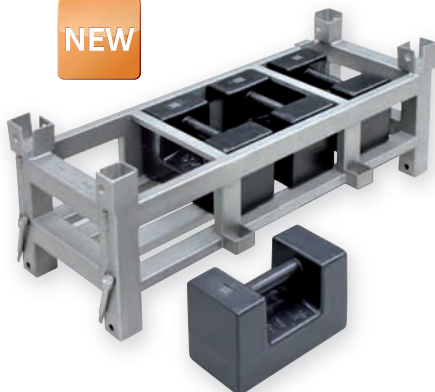


Aluminium case

for safe storage and transportation under harsh industrial conditions. Ideal for test weights of accuracy classes E2-M3. Please ask for details.

Weight carriers for rectangular weights or other test weights

NEW



Individual weight carriers for testing high capacity floor scales, pallet scales, pallet truck scales, crane scales, etc.

On request, KERN will make you a "tailor-made" weight carrier to your specifications.

16 DKD calibration service

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Precision is our business (Range of calibration services)	147
DKD calibration service	147
Calibration service for balances	148
Calibration service for test weights	149
Recalibration of test weights	150



The DKD = Deutscher Kalibrierdienst (German Calibration Service) is responsible for measuring „correctly“ in accordance with legally binding international standards. It is part of DAkkS = Deutsche Akkreditierungsstelle (German accreditation organisation) which was founded in Germany. The basis is the European range of standards DIN EN ISO/IEC 17 000 for conformity assessment, in particular the accreditation standard 17

025, which governs the organisation of a calibration laboratory, as well as basic metrological technical requirements.

Only an accredited calibration laboratory can issue DKD calibration certificates. This defines not only the measuring method, but also gives information on tracing the test means to a national standard and the relevant measuring uncertainty is given.



KERN – Precision is our business

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DKD calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Do you have any further requests or questions on this matter? We would be pleased to help you further, or why not visit us on the web at www.kern-lab.com

Range of services:

- DKD calibration of balances with a maximum load of up to 6 t
- DKD calibration of weights in the range of 1 mg – 500 kg

Calibrations can be carried out in the following classes: E1, E2, F1, F2, M1, M2 and M3.

- Database supported management of checking equipment and reminder service
- In combination with periodic recalibration we can offer you a wide range of further services:
 - Reconditioning of weights, e.g. cast weights (sand blasting, painting, adjustment,..)
 - Collection service with special transport packaging, even for heavy weights
 - Volume determination for weights of accuracy class E1
 - Measuring of sensitivity (magnetic characteristics)
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages D, GB, F, I, E, NL, PL

DKD calibration

Why? DKD calibration is always necessary when checking equipment (balance or test weight) is to be used in a QM process (e.g. to ISO 9000ff, GS 9000, TS 16949, VDA 6.1, FDA, GLP, GMP, ...)

What? Any checking equipment in proper condition can be DKD calibrated.

How? Determination of accuracy throughout the world by a laboratory which is accredited to DIN EN ISO 17025. Traceability to internationally recognised standards.

The DKD calibration certificate confirms both the measurement characteristics of the checking equipment and the general requirements for the control of checking equipment.

Where? Internationally recognised – this is monitored by ILAC (International Laboratory Accreditation Cooperation) and in Germany, for example the DKD (German calibration service)

When? The operator controls the use of checking equipment and periodic recalibration time intervals themselves

DKD calibration certificate for balances (extract)
 Further details on the internet at www.kern-lab.com

DEUTSCHER KALIBRIERDIENST DKD
 Kalibrierlaboratorium / Calibration laboratory

Akkreditiert durch die / accredited by the
 Akkreditierungsstelle des Deutschen Kalibrierdienstes

KERN
 WAAGEN · GEWICHTE · BALANCES · WEIGHTS
 KERN & Sohn GmbH
 DKD-K-11801

Alteste europäische Feinwaagen und Gewichtefabrik seit 1844
 Oldest European Manufacturer of Precision Balances since 1844

Kalibrierschein
 Calibration Certificate

Kalibrierzeichen
 Calibration mark

B-60
 DKD-K-11801
 10-01

Gegenstand / Object: Präzisionswaage / Precision Balance

Hersteller / Manufacturer: KERN & Sohn GmbH, Ziegelei 1, 72336 Balingen, GERMANY

Typ / Type: PBJ 620-3M

Fabrikate/Serien-Nr. / Serial number: W1012345

Auftraggeber / Customer: Max Mustermann GmbH, Teststr. 1, 42446 Musterstadt

Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem Internationalen Einheiten-system (SI).
 Der DKD ist Unterzeichner der multilateralen Übereinkommen der European cooperation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine. Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

This calibration certificate documents the

Messergebnisse / Measurement results

1. Wiederholbarkeit / Repeatability

Messung / Measuring	Prüflast / Load	Waagenanzeige / Indication
No. 1	500 g	499,999 g
No. 2	500 g	499,999 g
No. 3	500 g	500,000 g
No. 4	500 g	500,000 g
No. 5	500 g	500,000 g

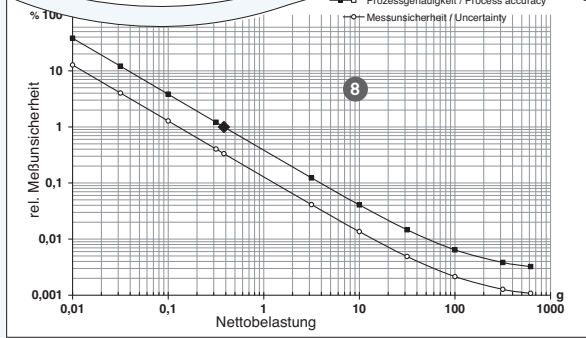
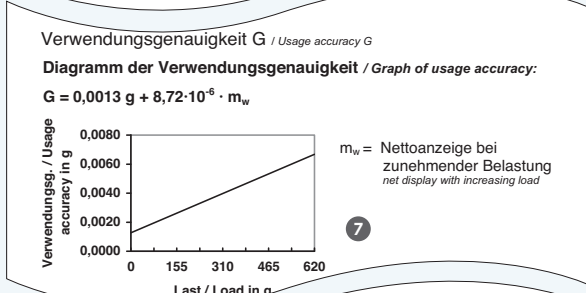
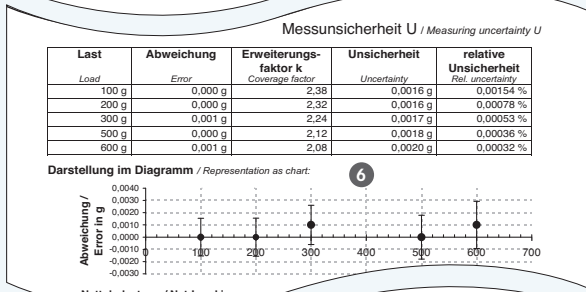
Standardabweichung: s = 0,0006 g
 Standard deviation:

2. Richtigkeit / Linearity

Prüflast / Load	Waagenanzeige / Indication
100 g	100,000 g
200 g	200,000 g
300 g	300,001 g
500 g	500,000 g
600 g	600,001 g

3. Außermitige Belastung / Eccentricity

Position / Position	Prüflast / Load	Waagenanzeige / Indication
No. 1	500 g	500,000 g
No. 2	500 g	499,999 g
No. 3	500 g	500,001 g
No. 4	500 g	500,001 g
No. 5	500 g	500,001 g



The advantages of using KERN in-house calibration

You send your balance to us.

To be recommended with new equipment and for balances which can be transported economically, as the travel costs for on-site calibration are then not applicable.

The advantages of using KERN on-site calibration

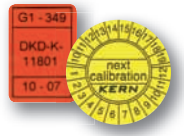
We visit you.

In Germany, KERN has access to a comprehensive network of employees at the KERN DKD calibration laboratory, who can carry out on-site calibration of scales up to 6 t.

The calibration service is **independent of the brand.**

Preliminary maintenance work by agreement.

Prices for on-site calibration on request.



Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements.
- We would recommend that you recalibrate your test weights every 6 months if they are used intensively, and every 12 months with normal use.

Initial calibration and recalibration of scales at the KERN factory	KERN	Price € excl. of VAT ex works
Weighing range		
Analytical balances		
Max ≤ 5 kg	963-101	125,-
Max ≤ 5 kg	963-102	160,-
Precision balances/Industrial scales		
Max ≤ 5 kg	963-127	65,-
Max > 5 kg - 50 kg	963-128	80,-
Max > 50 kg - 350 kg	963-129	95,-
Max > 350 kg - 1500 kg	963-130	150,-
Max > 1500 kg - 2000 kg*	963-131	200,-
Max > 2000 kg - 6000 kg*	963-132	400,-
Preparation for recalibration (cleaning, adjustment, function test)	969-003R	20,-
Additional services:		
Minimum weight of sample (for details see internet)	969-103	10,-
Digital calibration certificate (by e-mail as pdf file)	969-102	5,-
DKD Express service with delivery time 1 day (only on initial purchase)	962-116	50,-/parcel
Express shipping: Express supplement for guaranteed delivery on the next working day (if ready for shipment before 12:00 noon)		40,-/parcel

* floor scales only. Please ask for further details.

- Official document
- Item to be calibrated
- Traceability
- Identification
- Metrological component
- Measuring uncertainty
- Usage accuracy
- Minimum weight of sample

DKD calibration certificate for weights (extract)
 Further details on the internet at www.kern-lab.com

DEUTSCHER KALIBRIERDIENST DKD

Kalibrierlaboratorium / Calibration laboratory **1**

Akkreditiert durch die / accredited by the
 Akkreditierungsstelle des Deutschen Kalibrierdienstes



KERN & Sohn GmbH

Älteste europäische Feinwaagen und Gewichtefabrik seit 1844
 Oldest European Manufacturer of Precision Balances since 1844

Kalibrierschein **1** Kalibrierzeichen **DKD-K-11801**
 Calibration certificate **10-02**

Gegenstand / Object **2**: Gewichtssatz, 1 mg - 500 g Klasse E2
 Set of weights, 1 mg - 500 g Class E2

Hersteller / Manufacturer **3**: KERN & Sohn GmbH, Ziegelei 1, D-72336 Balingen, Germany

Typ / Type **3**: 313-054

Fabrikate/Serien-Nr. / Serial number **3**: G123456789

Auftraggeber / Customer **4**: Max Mustermann GmbH, Teststr. 1, 42446 Musterstadt, Deutschland

5: Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Der DKD ist Unterzeichner der multilateralen Übereinkommen der European cooperation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine. Für die Einhaltung eines angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

6: This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the

Umgebungsbedingungen: Die Kalibrierung wurde bei folgenden Umgebungsbedingungen ausgeführt:
 Ambient conditions: The calibration was carried out under the following ambient conditions:

	von / from	bis / to
Temperatur / °C / temperature	24,0	24,9
rel. Luftfeuchte / % / relative humidity	49,3	52,4
Luftdruck / mbar / air pressure	952,3	953,7

5

Material / Angenommene Dichte: / Material / Assumed density:

Nennwert / nominal value	Dichte / density	Unsicherheit / uncertainty	Material / material	Form / shape
1 mg - 5 mg	2700 kg/m ³	130 kg/m ³	Aluminium	Plättchen / Flat sheet
10 mg - 500 mg	8600 kg/m ³	170 kg/m ³	Neusilber / German silver	Plättchen / Flat sheet
1 g - 500 g	8000 kg/m ³	100 kg/m ³	Edelstahl / Stainless steel	Knopf / Cylindrical form

DEUTSCHER KALIBRIERDIENST DKD

Kalibrierlaboratorium / Calibration laboratory

Akkreditiert durch die / accredited by the
 Akkreditierungsstelle des Deutschen Kalibrierdienstes

Seite 5 zum Kalibrierschein vom 19.01.2011
 Page 5 of the calibration certificate dated

6

7

8

Messergebnisse: / Measurement results:

Nennwert / nominal value	Kennzeichnung / marking	konventioneller Wägewert / conventional mass	Unsicherheit / uncertainty	Fehlergrenze / max. perm. error	Klasse* / class*
1 mg		1 mg - 0,002 mg	0,002 mg	± 0,006 mg	E2 ✓
2 mg		2 mg + 0,001 mg	0,002 mg	± 0,006 mg	E2 ✓
2 mg	*	2 mg - 0,002 mg	0,002 mg	± 0,006 mg	E2 ✓
5 mg		5 mg - 0,001 mg	0,002 mg	± 0,006 mg	E2 ✓
10 mg		10 mg + 0,000 mg	0,003 mg	± 0,008 mg	E2 ✓
20 mg		20 mg - 0,002 mg	0,003 mg	± 0,010 mg	E2 ✓
20 mg	*	20 mg + 0,006 mg	0,003 mg	± 0,010 mg	E2 ✓
50 mg		50 mg - 0,007 mg	0,004 mg	± 0,012 mg	E2 ✓
100 mg		100 mg - 0,000 mg	0,005 mg	± 0,016 mg	E2 ✓
200 mg		200 mg + 0,003 mg	0,007 mg	± 0,020 mg	E2 ✓
200 mg	*	200 mg + 0,007 mg	0,007 mg	± 0,020 mg	E2 ✓
500 mg		500 mg + 0,007 mg	0,008 mg	± 0,025 mg	E2 ✓
1 g		1 g - 0,008 mg	0,010 mg	± 0,03 mg	E2 ✓
2 g		2 g + 0,015 mg	0,013 mg	± 0,04 mg	E2 ✓
2 g	*	2 g + 0,012 mg	0,013 mg	± 0,04 mg	E2 ✓
5 g		5 g + 0,005 mg	0,017 mg	± 0,05 mg	E2 ✓
10 g		10 g - 0,005 mg	0,020 mg	± 0,06 mg	E2 ✓
20 g		20 g - 0,043 mg	0,027 mg	± 0,08 mg	E2 ✓
20 g	*	20 g - 0,019 mg	0,027 mg	± 0,08 mg	E2 ✓
50 g		50 g - 0,00 mg	0,03 mg	± 0,10 mg	E2 ✓
100 g		100 g - 0,03 mg	0,05 mg	± 0,16 mg	E2 ✓
200 g		200 g - 0,03 mg	0,10 mg	± 0,3 mg	E2 ✓
200 g	*	200 g - 0,08 mg	0,10 mg	± 0,3 mg	E2 ✓
500 g		500 g - 0,39 mg	0,27 mg	± 0,8 mg	E2 ✓

Calibration of test weights

Calibrated measuring equipment requires calibrated checking equipment. For balances, these are calibrated test weights, also called "standard weights".

We calibrate test weights...

- in all OIML classes E1 through M3 with permissible error limits (for tolerance tables, see page 129), in sizes 1 mg to 500 kg.
- with free nominal value
- in Newtons
- independent of design (special designs)

The advantages of using KERN in-house calibration

You send your test weights to us.

- Excellent price performance ratio
- The quickest process time
 - standard DKD service: 4 working days
 - DKD Express service: 48 hours (new weights)
- The most modern calibration methods with robot controlled comparators allow the most accurate calibration results and fastest throughput time
- A calibration service which is independent of the brand
- KERN also reconditions existing customer weights (e.g. readjustment or cleaning)
- We would be pleased to monitor your recalibration schedule
- On request, with our parcel service, we can also provide a pick-up and collection service
- KERN DKD calibration certificates are internationally recognised

The advantages of using KERN on-site calibration

We visit you.

We would be pleased to visit you within Germany and carry out the calibration of your reference standards to OIML classes M1 to M3, 10 to 50 kg with permissible error limits, using our mobile MACOS system. Minimized downtime of your checking equipment and direct contact with our expert are the major benefits of this service. Price on request.

Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements.
- In terms of standardisation, no particular recalibration interval is specified.
- We would recommend that you recalibrate your test weights every 6 months if they are used intensively, and every 12 months with normal use.

- 1 Official document
- 2 Item to be calibrated
- 3 Traceability
- 4 Identification
- 5 Environmental conditions
- 6 Metrological component
- 7 Conventional mass
- 8 Measuring uncertainty

Recalibration price of test weights

OIML Class: →	E1 with volume determination		E1 without volume determination		E2		F1 / F2 * Only F2		M1 / M2 / M3	
	Weight value: ↓	KERN	Price € excl. of VAT	KERN	Price € excl. of VAT	KERN	Price € excl. of VAT	KERN	Price € excl. of VAT	KERN
1 mg	-	-	962-251R	50,-	962-351R	24,-	962-451R	17,-	962-651R	14,-
2 mg	-	-	962-252R	50,-	962-352R	24,-	962-452R	17,-	962-652R	14,-
5 mg	-	-	962-253R	50,-	962-353R	24,-	962-453R	17,-	962-653R	14,-
10 mg	-	-	962-254R	50,-	962-354R	24,-	962-454R	17,-	962-654R	14,-
20 mg	-	-	962-255R	50,-	962-355R	24,-	962-455R	17,-	962-655R	14,-
50 mg	-	-	962-256R	50,-	962-356R	24,-	962-456R	17,-	962-656R	14,-
100 mg	-	-	962-257R	50,-	962-357R	24,-	962-457R	17,-	962-657R	14,-
200 mg	-	-	962-258R	50,-	962-358R	24,-	962-458R	17,-	962-658R	14,-
500 mg	-	-	962-259R	50,-	962-359R	24,-	962-459R	17,-	962-659R	14,-
1 g	963-231	191,-	962-231R	50,-	962-331R	24,-	962-431R	17,-	962-631R	14,-
2 g	963-232	191,-	962-232R	50,-	962-332R	24,-	962-432R	17,-	962-632R	14,-
5 g	963-233	191,-	962-233R	50,-	962-333R	24,-	962-433R	17,-	962-633R	14,-
10 g	963-234	191,-	962-234R	50,-	962-334R	24,-	962-434R	17,-	962-634R	14,-
20 g	963-235	191,-	962-235R	50,-	962-335R	24,-	962-435R	17,-	962-635R	14,-
50 g	963-236	191,-	962-236R	50,-	962-336R	24,-	962-436R	17,-	962-636R	14,-
100 g	963-237	191,-	962-237R	50,-	962-337R	31,-	962-437R	19,-	962-637R	15,-
200 g	963-238	191,-	962-238R	50,-	962-338R	31,-	962-438R	19,-	962-638R	15,-
500 g	963-239	191,-	962-239R	50,-	962-339R	31,-	962-439R	19,-	962-639R	15,-
1 kg	963-241	191,-	962-241R	50,-	962-341R	31,-	962-441R	19,-	962-641R	15,-
2 kg	963-242	467,-	962-242R	62,-	962-342R	39,-	962-442R	24,-	962-642R	16,-
5 kg	963-243	467,-	962-243R	62,-	962-343R	39,-	962-443R	24,-	962-643R	16,-
10 kg	963-244	467,-	962-244R	62,-	962-344R	39,-	962-444R	24,-	962-644R	16,-
20 kg	963-245	1100,-	962-245R	560,-	962-345R	50,-	962-445R	27,-	962-645R	21,-
50 kg	963-246	1300,-	962-246R	630,-	962-346R	62,-	962-446R	38,-	962-646R	23,-
100 kg	-	-	-	-	-	-	962-591R*	110,-	962-691R	60,-
200 kg	-	-	-	-	-	-	962-592R*	110,-	962-692R	60,-
500 kg	-	-	-	-	-	-	962-593R*	110,-	962-693R	60,-
1 mg - 500 mg	-	-	962-250R	335,-	962-350R	180,-	962-450R	96,-	962-650R	60,-
1 mg - 50 g	963-201	1060,-	962-201R	540,-	962-301R	300,-	962-401R	160,-	962-601R	100,-
1 mg - 100 g	963-202	1160,-	962-202R	560,-	962-302R	322,-	962-402R	170,-	962-602R	106,-
1 mg - 200 g	963-203	1340,-	962-203R	610,-	962-303R	366,-	962-403R	190,-	962-603R	118,-
1 mg - 500 g	963-204	1430,-	962-204R	640,-	962-304R	388,-	962-404R	200,-	962-604R	124,-
1 mg - 1 kg	963-205	1520,-	962-205R	670,-	962-305R	410,-	962-405R	210,-	962-605R	130,-
1 mg - 2 kg	963-206	1980,-	962-206R	720,-	962-306R	470,-	962-406R	240,-	962-606R	144,-
1 mg - 5 kg	963-207	2430,-	962-207R	740,-	962-307R	500,-	962-407R	255,-	962-607R	151,-
1 mg - 10 kg	963-208	2870,-	962-208R	770,-	962-308R	530,-	962-408R	270,-	962-608R	158,-
1 g - 50 g	963-215	760,-	962-215R	235,-	962-315R	120,-	962-415R	64,-	962-615R	40,-
1 g - 100 g	963-216	850,-	962-216R	260,-	962-316R	142,-	962-416R	74,-	962-616R	46,-
1 g - 200 g	963-217	1030,-	962-217R	310,-	962-317R	186,-	962-417R	94,-	962-617R	58,-
1 g - 500 g	963-218	1120,-	962-218R	335,-	962-318R	208,-	962-418R	104,-	962-618R	64,-
1 g - 1 kg	963-219	1220,-	962-219R	360,-	962-319R	230,-	962-419R	114,-	962-619R	70,-
1 g - 2 kg	963-220	1760,-	962-220R	410,-	962-320R	290,-	962-420R	144,-	962-620R	84,-
1 g - 5 kg	963-221	2210,-	962-221R	435,-	962-321R	320,-	962-421R	159,-	962-621R	91,-
1 g - 10 kg	963-222R	2660,-	962-222R	465,-	962-322R	350,-	962-422R	174,-	962-622R	98,-

Additional costs for preparation, overhaul and adjustment	KERN	Preis € o. MwSt.
Preparation of weights (e.g. cleaning, etc.)		
Single weight	969-001R	3,-
Weight set	969-002R	16,-
Subsequent services are carried out after confirmation		
Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging)	969-005R	T & M basis
Adjustment, per weight (only available for weights with adjustment chamber (F1-M3))	969-010R	12,-
Second calibration after adjustment per weight		
Class E1	969-210R	40,-
Class E1 incl. volume determination	969-211R	80,-
Class E2	969-310R	14,-
Class F1/F2	969-410R	14,-
Class M1-M3	969-610R	14,-
Testing of magnetic properties according to OIML R111-2004, per weight	972-000	12,-

KERN DKD-Express Service

DKD standard service Class E2-M3	4 working days
DKD standard service Class E1, 1mg-500mg, and recalibration 1g-10kg with a known volume	15 working days
Class E1, 1g-1kg, incl. volume determination	25 working days
Class E1, ≥ 2kg, incl. volume determination	40 working days

DKD express service in 48 hours
except for class E1

- Urgent order is received at KERN by 12:00 noon at the latest
- Ready for shipping at KERN on the next working day but on, at 12:00 noon
- Return by standard parcel service or express shipping
- Additional cost for DKD Express Service, for each KERN test weight KERN 962-115 € 20,-
- For Express shipping, see page 148

▪ **Adjusting of measuring equipment:**

precise setting of a measure value via a professional intervention in the measurement system.

▪ **Adjusting the weighing range of a balance:**



either with the external test weight via the **adjusting program (CAL)**, or with the **internal automatic adjustment resp. adjusting switch**. It is necessary with variations in temperature, a change of environmental conditions, change of location, etc. **Recommended as a daily check routine.**

▪ **Application accuracy:**

Allowance for → *measuring uncertainty* during practical use of a balance. Is given in the appendix to the DKD calibration certificate.

▪ **Calibration of measuring equipment:**

determination of the precision of a measure value without intervention in the measurement system. Example: to check a balance you load a → *test weight upon it*. The term “Calibrating” was formerly also used for → *Adjusting*.

▪ **Calibration or verification:**



DKD-Calibration is possible for every balance in perfect condition. DKD calibration is a private service monitored by the state for ensuring high quality requirements according to ISO 9000ff and others, e.g. in production or research.

M Verifying is only possible for type-approved balances marked with the green **M**

→ *Verification*

▪ **Calibration Certificate DKD:**



documentation of measured characteristics of balances or test weights and of traceability to the national standard. Additional price. See pages 147-150.

▪ **Capacity display:**

a bar lights up to show the currently selected and optionally available weighing range.

▪ **Certificate:**

The term is no longer used within DKD

→ *Calibration certificate*

▪ **Control of measuring equipment:**

required for quality management systems according to ISO 9000ff, GLP etc. Measuring equipment (e.g. balances) and checking equipment (e.g. test weights) must be controlled (= calibrated) at certain intervals for their precision

→ *Recalibration.*

▪ **Data interface/parameters:**



For the most part RS 232C, bidirectional. For direct connection of a printer or PC to the balance. The interface parameters can be set on the balance keypad. Interface cable, see page 126.

▪ **Density determination:**

(previously “Specific weight”)

▪ **DKD = German Calibration Service:**

See pages 147-150.



▪ **DMS = Strain gauge:**

An electrical resistor strip that is glued to an elastic deforming body made of aluminium. As the strain gauge is mechanically deformed its resistance value changes, allowing the measured value to be calculated.

▪ **Draught shield:**

Required for balances with → *Readout d* ≤ 1 mg, to avoid disturbing air movements.

▪ **Dual-range balance:**

the complete weighing range of a balance is divided and starts with → *Readout d₁*. Beyond this fine range the → *Readout d₂*, usually 2 x *d₁*. The change-over occurs automatically.

▪ **Dynamic weighing:**

→ *Filter*

▪ **External test weight (previously calibration weight):**

for adjusting or checking the balance accuracy → *Adjusting the weighing range*. The external test weight can be DKD calibrated at any time, even afterwards, see page 149.

▪ **Filter for adaptation to the ambient conditions:**

vibrations are compensated due to an increase of the measurement cycles within the balance, this means an extension of the integration time.

▪ **FORCE = Electromagnetic force compensation:**



A counterforce is created by means of a coil in a permanent magnet. This counterforce is the same as the load of the weight being measured on the scale and therefore maintains the balance. The measured value is calculated via the change in the coil current.

▪ **Gravitational force:**

very important influence for precise electronic balances. Due to the varying influence balances have to be → *adjusted* at the location of use.

▪ **GLP:**

Good Laboratory Practice → *ISO/GLP*

▪ **Internal test weight:**

like test weight external, but installed in the balance and powered.

▪ **IP 65 protection in accordance with DIN EN 60529**



Designed for temporary contact with liquids. Use a damp cloth for cleaning. Dustproof.

▪ **IP 67 protection in accordance with DIN EN 60529**



Designed for temporary use in wet areas. Can be cleaned with water jet. Temporary submersion is possible. Dustproof.

▪ **IP 68 protection in accordance with DIN EN 60529**



Designed for continuous use in wet areas. Can be cleaned with water jet. Submersion is possible. Dustproof.

▪ **ISO 9000ff:**

Quality Management System in the form of a DIN Norm for quality assurance in a factory.



▪ **ISO/GLP record keeping:**

Quality Assurance Systems demand record keeping of weighing results and the correct adjusting of the balance giving details of date, time and balance identification. The easiest way of obtaining this documentation is by means of a connected printer.

▪ **Linearity/precision:**

greatest deviation of the weight display of a balance to the value of the respective test weight in terms of plus and minus over the whole weighing range.

▪ **Manufacturer’s declaration of conformity:**

this documents that a product meets the EC directives. With electronic balances always in conjunction with CE mark.

▪ **Minimum load Min:**

lower limit of the verifiable weighing range. Is marked on the verification plate. The function of the balance is also given below the minimum load.

▪ **Net total:**



= total weight of all components of a mixture without the weight of the tare cup.

▪ **Percentage determination (example):**



reference weight prior to drying: 50g = balance display 100 %. After drying 40 g = balance display 80 % absolute (dry mass) or 20 % relative (humidity).

▪ **Permissible ambient temperature:**

measuring errors are possible with readings either side of the limits. With verified balances this is stated on the identification plate.

▪ **Proof of compatibility:**

This documents the verification compatibility for combinations of weighing modules such as display devices, load cells and connecting elements.

▪ **Piece counting of single pieces:**



when weighing e.g. 10 identical pieces; the → *reference quantity* is 10. The balance automatically indicates the average weight per piece. As from now each loading of identical pieces to be counted will be directly indicated as the quantity of pieces. The following applies: **The higher the reference quantity, the higher the counting accuracy.**

▪ **Readout d:**

Smallest readable weight increment on a digital display.

▪ **Reference weight (when piece counting):**

representative piece weight with piece counting of same pieces. The **reference quantity of pieces** is the number of pieces selected to determine the average reference weight. Mostly between 10 and 50 pieces.

→ *Piece counting of single pieces.*



▪ **Recalibration:**

periodic checking of the precision of measurement equipment/checking equipment (e.g. balances/weights) to keep control over accuracy,

→ *Control of measuring equipment.*

▪ **Reproducibility (standard deviation):**

the measure of conformity in repeat weighing (e.g. balances) subject to the same conditions. Mostly 1 **d** or less. Quality feature.



▪ **SC-TECH = Single cell technology:**

Advanced version of the classic electromagnetic force compensation principle. The load cells are milled from a single aluminium block achieving high mechanical strength, fast response characteristics and greater measurement stability, e.g. temperature behaviour and high reproducibility.

▪ **Semi-micro balance:**

analytical balance with a readout **d** = 0,01 mg.

▪ **Taring, subtractive:**

the available weighing range of a balance is reduced by the value of the tare load. Example: weighing range of a balance **Max** 6000 g, Tare (= container) 470 g, available weighing range 5530 g.

▪ **Taring, automatic:**

when the tare pan is put in place the balance immediately displays zero. Saves time.

▪ **Test weights: classes of accuracy E, F, M**

and their general relation to the types of balances:

- E2** the most accurate test weights for high resolution analytical balances of verification class I ≥ 100.000 e
- F1** Precision weights for analytical balances/precision balances for verification class I/ II, up to 100,000 e
- F2** Test weights for precision balances of verification class II, up to 30,000 e
- M1** Precision weights for industrial and commercial balances of verification class III, up to 10,000 e

more closely defined rules to determine the correct test weight and example of application, see page 128.



▪ **T-FORK = Tuning fork principle:**

A resonating body (like a tuning fork) is electromagnetically excited, causing it to oscillate. The measured value is calculated via the change in frequency corresponding to the load of the weight being measured on the scale.

▪ **Tolerance checks:**

→ *Weighing with tolerance ranges.*



▪ **Totalising:**

various individual weighings are added automatically to aggregate, e.g. all individual weighings of a batch.

▪ **Traceability to the National Standard:**

ISO 9000 ff requires the correctness of all checking equipment (e.g. test weights) with the official standard in accordance to the defined tolerance. Thereby incorrect measurement is prevented.

▪ **Uncertainty of measurement of a balance (= standard deviation):**

determined for each balance according to a precisely given test method and documented in the → *Calibration certificate*. It depends on various factors both internal and external. With increasing weight the uncertainty of measurement rises, see page 148.



▪ **Verification:**

Only type approved balances can be verified officially. These balances are marked with an **M**. Verification is stipulated by the state for commercial trade. It is to protect the consumer.

▪ **Balances which are verified / not approved for verification:**

Metrologically almost identical. For verified balances certain details are regulated by law, e.g. software changes and additional markings.

▪ **Verification validity for balances:**

Generally 2 years for all verification categories, for control balances generally 1 year, after expiry the balance has to be reverified.

▪ **Verification categories of balances:**

- Class I – Analytical balance (precision balance),
- Class II – precision balance,
- Class III – industrial scale (commercial scale).

▪ **Verification:**

According to the EU directive 2009/23/EG, balances must be verified if they are used as follows:

- a) in commercial trade when the price of a commodity is determined by weighing.
- b) in the manufacture of pharmaceuticals in pharmacies and analysis in pharmaceutical and medical laboratories.
- c) for official purposes.
- d) in the production of prepackaging.
- e) in medical applications.

Every balance is tested by the metrological service and stamped with a verification mark. Its accuracy within the framework of permissible standard tolerances is thereby confirmed. EU verification applies to all member states of the EU

▪ **Verification of a balance with adjusting program CAL EXT:**

the adjusting program is sealed with an official mark after the verification. Thus the verification is only valid for the specific location of use.

→ *Gravitational force*

For the preparation of verification it is therefore necessary to advise the location of use and post-code. See individual model details for the information as to whether verification can be carried out in the factory or at the location of use.

▪ **Verification of a balance with automatic internal adjusting CAL INT:**

the above restrictions in respect of the location of use do not apply, because the automatic internal adjusting works also after the verification, therefore it is not sealed. In this case the verification does not depend on the location.

▪ **Verification value e:**

measure of the verification tolerance, depending on balance, mostly between 1 **d** and 10 **d**

→ *Readout*

▪ **Weighing range Max:**

is the working range of the balance. The balance can be loaded up to the specified upper limit.




▪ **Weighing with tolerance ranges:**

the lower and upper limiting values are programmed individually. Input is possible in grams, pieces or %. With tolerance checks such as dosing, portion division or grading, the balance displays the value over or under the limits.

Retailer information

Sales conditions



- **All prices are valid as of February 1st 2011** until a new version of the KERN catalogue is released. In Europe, all prices do not include the applicable V.A.T.
- **At KERN there is no minimum order value.** For orders less than € 15,- there is no re-sale discount available. A minimum fee of € 15.00 will be charged for orders less than € 15.00 (net).
- **Delivery Conditions:** we supply ex works Balingen, i.e. the transport costs are invoiced. Delivery is usually via courier service, or by truck, when you see this  symbol. Please ask for prices. Any goods supplied, remain KERN's property until complete payment for the goods sold has been received.
- **Legal domicile** is 72336 Balingen, Germany.
- **Price changes and product changes** are likely in individual cases due to product modifications as well as error.
- **Sale or return:** within 14 days of purchase. Not valid for services provided e.g. verification or calibration.
- **Warranty:** 3 years, under € 400.00: 2 years. Does not apply to consumables such as batteries, rechargeable battery packs, etc.

Marketing support



- **KERN catalogues, brochures, branch prospectuses – your own personalised marketing tools**
This catalogue and branch prospectuses are available free of charge. A neutral version of the catalogue, without the KERN address imprint, is also available for your marketing activities free of charge (200 pcs.), larger quantities on request. On demand, your company logo and address can be printed on the back of the KERN catalogue free of charge (200 pcs.), larger quantities on request. In this way you have your own individual marketing tool. The KERN catalogue branch prospectuses are available in the following languages: DE, GB, FR, IT, ES, NL, PT, RUS.

Further details, see page 2.

After-Sales-Service



- **Repair services** within 1 week at our plant in Balingen, transportation costs are additional. In urgent cases, if requested by customer, a replacement device will be provided until all repairs are completed; please ask.
- **Price reduction on a new device:** if repair costs exceed the current value of the defective device, a new device will be offered at a discount price. This offer is valid only up to 2 years after warranty expiration.
- **Spare parts service** iwithin 48 hours, transportation costs are additional

Important notice



Explosion hazard or humidity

Our balances are not suitable for rooms with explosion hazard or extreme humidity. Please observe relevant electrical instructions.

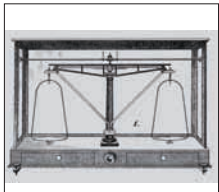
Earth's Gravitational force

Electronic balances are subject to location regulations due to the earth's gravitational force. If location of use is changed, reverification and recalibration of the electronic balance is needed.

See the glossary, page 151 → „Adjusting“.

Tradition and innovation for more than 167 years

1844



KERN is founded – precision balances are produced

1863



A proud Gottlieb Kern with his staff

1880



Pharmaceutical balance with Aesculap

1923



Inflation – KERN wages are paid with self printed currency



The electronic balance ousts mechanical devices



Accredited for weights DKD laboratory (ISO 17025)

2002



Existing QM system certification in accordance to DIN EN ISO 9001:2000 standards

2007



Approval for the Manufacture of Medical Products (DIN EN 13485 and 93/42/EEC)

2008



Approval for manufacturer's initial calibration (90/384/EEC)

2009



Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)

2009



Expansion of accreditation services to include calibration of force-measurement devices

New premises in Balingen

% X-TRA PRICE % X-TRA PRICE % X-TRA PRICE %

% SPECIAL OFFERS

We are clearing out our stocks!

Any number of special offers and deals are waiting on you - so act quickly!

Note: You can find even more great deals on our Website under the heading „Special offers“.

In addition to sell-out models, **you can also find unbeatably cost-effective devices with slight signs of wear.**

Of course, they all have a 2-year warranty.

ONLY WHILE STOCKS LAST!!!



%



%



Bench scale FWN 1K0.5IP

Weighing range: 1 kg
Read-out: 0,5 g

www.kern-sohn.com/en/FWN

Precision balance PCB 4000-1

Weighing range: 4000 g
Read-out: 0,1 g

www.kern-sohn.com/en/PCB

Plattform scale EFB 20K10D

Weighing range: 10 | 20 kg
Read-out: 10 | 20 g

www.kern-sohn.com/en/EFB

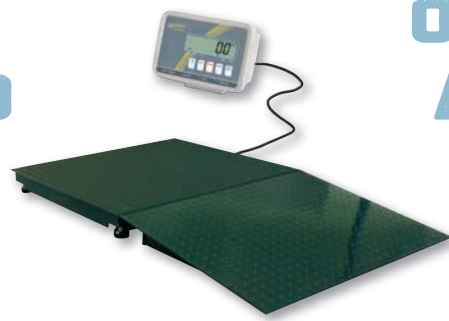
old price: ~~€ 210,-~~ new: **€ 160,-**
excl. of VAT

old price: ~~€ 190,-~~ new: **€ 150,-**
excl. of VAT

old price: ~~€ 120,-~~ new: **€ 49,-**
excl. of VAT



%



%



Bench scale GAS 15K5DM

Weighing range: 7,5 | 15 kg
Read-out: 5 | 10 g

Bench scale GAS 30K10DM

Weighing range: 15 | 30 kg
Read-out: 10 | 20 g

www.kern-sohn.com/en/GAS

Floor scales BVBP 600K200M

Weighing range: 600 kg
Read-out: 200 g

Floor scales BVBP 3T1M

Weighing range: 3000 kg
Read-out: 1000 g

www.kern-sohn.com/en/BVBP

Plattform scale VB 300K50DLM

Weighing range: 150 | 300 kg
Read-out: 50 | 100 g

www.kern-sohn.com/en/VB

old price: ~~€ 250,-~~ new: **€ 140,-**
excl. of VAT

old price: ~~€ 1.520,-~~ new: **€ 990,-**
excl. of VAT

old price: ~~€ 480,-~~ new: **€ 350,-**
excl. of VAT