



Weighing range **B**



Weighing range **C**



Checkweighing application in the cosmetics industry.



Glass draught shield
with 3 sliding doors, left right and top, weighing space WxDxH 150x140x130 mm, refittable on all models with weighing plate size **A**,
KERN EG-A03, € 140,-



Standard printer
KERN YKB-01N, € 270,-



Label printer
KERN YKL-01, € 650,-



Statistics printer
KERN YKT-01, € 690,-

For all printers see page 94.

! Verification at the factory, we need to know the full address of the location of use.

Model KERN	Weighing range Max g	Read- out d g	Verific. value e g	Repro- duci- bility g	Linea- rity g	Weigh- ing plate	Price € excl. of VAT, ex works	Verifi- cation KERN	OPTIONS alternative		
									M II	Certifi- cate KERN	DKD
EW 220-3NM	220	0,001	0,01	0,001	± 0,002	A	550,-	950-116	! 55,-	963-127	65,-
EW 420-3NM	420	0,001	0,01	0,001	± 0,003	A	620,-	950-116	! 55,-	963-127	65,-
EW 620-3NM*	620	0,001	-	0,001	± 0,003	A	720,-	-	-	963-101	125,-
EW 820-2NM*	820	0,01	-	0,01	± 0,01	B	510,-	-	-	963-101	125,-
EW 2200-2NM	2200	0,01	0,1	0,01	± 0,01	C	580,-	950-116	! 55,-	963-127	65,-
EW 4200-2NM	4200	0,01	0,1	0,01	± 0,02	C	650,-	950-116	! 55,-	963-127	65,-
EW 6200-2NM*	6200	0,01	-	0,01	± 0,03	C	790,-	-	-	963-102	160,-
EW 12000-1NM	12000	0,1	1	0,1	± 0,2	C	610,-	950-117	! 70,-	963-128	80,-
For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
EG 220-3NM	220	0,001	0,01	0,001	± 0,002	A	650,-	950-116	! 55,-	963-127	65,-
EG 420-3NM	420	0,001	0,01	0,001	± 0,003	A	740,-	950-116	! 55,-	963-127	65,-
EG 620-3NM*	620	0,001	0,01	0,001	± 0,004	A	840,-	950-101	! 100,-*	963-101	125,-
EG 2200-2NM	2200	0,01	0,1	0,01	± 0,01	C	670,-	950-116	! 55,-	963-127	65,-
EG 4200-2NM	4200	0,01	0,1	0,01	± 0,02	C	750,-	950-116	! 55,-	963-127	65,-



FACTORY OPTION



OPTION
DKD
Certificate
+3 days



New models

Stainless steel weighing plate
A 140 x 120 mm
B 200 x 200 mm, illustrated
C 250 x 220 mm



Protective working cover
standard (not for PES 31000-1M). Can be reordered,
KERN PES-A04, € 10,-



Weighing plate **C**

Draught shield
standard, with removable cover with pipette opening, on all models with readout $d = 0.001$ g, weighing space $W \times D \times H$ 170x150x100 mm

Weighing with tolerance range

(checkweighing)
Input of 2 upper and 2 lower limit values through 4 arrow keys. An acoustic signal assists with the portion division, dispensing or grading

PES only:
Rechargeable battery pack internal, operating time approx. 6 h, charging time approx. 15 h. Must be ordered at purchase,
KERN PES-A01, € 510,-

Metal housing
robust and sturdy

Relay output
With 5 outputs for weighing result in 3 tolerance ranges. Must be ordered at purchase,
KERN PES-A02, € 400,-

Fluorescent display
with high contrast, digit height 13 mm

STANDARD



Standard printer
KERN YKB-01N, € 270,-

Label printer
KERN YKL-01, € 650,-

Statistics printer
KERN YKT-01, € 690,-
For all printers see p. 94

Technical Data:
Overall dimensions
(without draught shield) weighing plate **A**, **B** $W \times D \times H$ 220x333x93 mm

Permitted environmental temperature
+10 ... +30 °C
UNITS Further weighing units: see the internet

* Verification class **(1)**

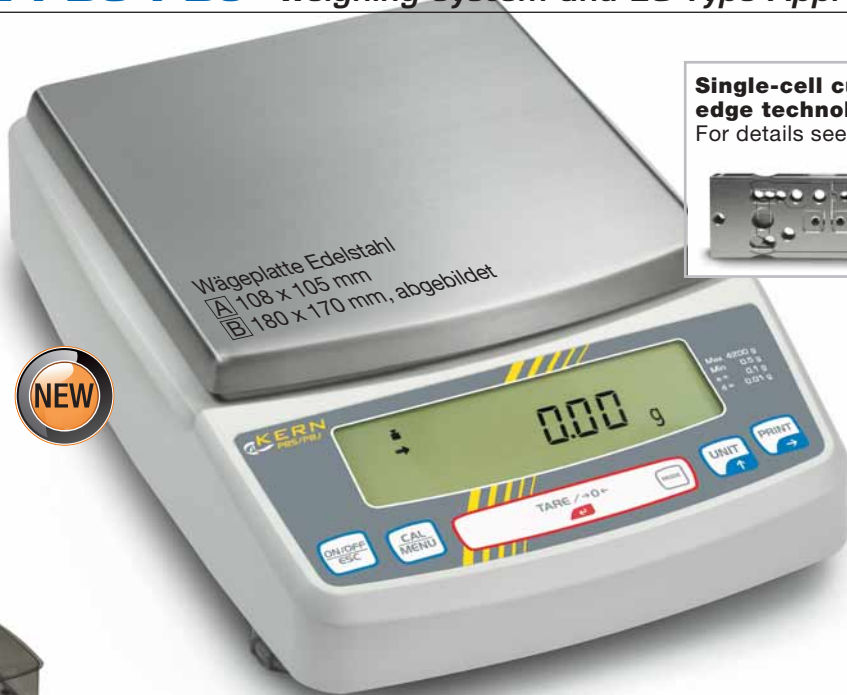


I Verification at the factory, we need to know the full address of the location of use.

Model KERN	Weighing range Max g	Read-out d g	Verific. value e g	Repro-ducibility g	Linearity g	Net weigh approx. kg	Weighing plate	Price € excl. of VAT, ex works	Verifi-cation KERN	OPTION M II Certifi-cate KERN €	alternative DKD €
PES 220-3M	220	0,001	0,01	0,001	± 0,002	4	A	740,-	950-116	55,-	963-127 65,-
PES 420-3M	420	0,001	0,01	0,001	± 0,003	4	A	870,-	950-116	55,-	963-127 65,-
PES 620-3M	620	0,001	-	0,001	± 0,003	4	A	990,-	-	-	963-127 65,-
PES 2200-2M	2200	0,01	0,1	0,01	± 0,02	4	B	810,-	950-116	55,-	963-127 65,-
PES 4200-2M	4200	0,01	0,1	0,01	± 0,02	4	B	950,-	950-116	55,-	963-127 65,-
PES 6200-2M	6200	0,01	-	0,01	± 0,03	4	B	1130,-	-	-	963-128 80,-
PES 8200-1M	8200	0,1	1	0,1	± 0,2	4	B	1050,-	950-117	70,-	963-128 80,-
PES 15000-1M	15000	0,1	1	0,1	± 0,2	4	B	1140,-	950-117	70,-	963-128 80,-
PES 31000-1M	31000	0,1	1	0,1	± 0,4	8,9	C	1810,-	950-117	70,-	963-128 80,-
For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
PEJ 220-3M	220	0,001	0,01	0,001	± 0,002	6	A	930,-	950-116	55,-	963-127 65,-
PEJ 420-3M	420	0,001	0,01	0,001	± 0,003	6	A	1060,-	950-116	55,-	963-127 65,-
PEJ 620-3M*	620	0,001	0,01	0,001	± 0,003	6	A	1180,-	950-116	55,-	963-127 65,-
PEJ 2200-2M	2200	0,01	0,1	0,01	± 0,02	6	B	990,-	950-116	55,-	963-127 65,-
PEJ 4200-2M	4200	0,01	0,1	0,01	± 0,02	6	B	1110,-	950-116	55,-	963-127 65,-



FACTORY OPTION



Large backlit LCD display
with digit height 14 mm

Dosage aid
High-stability mode and other filter settings can be selected

Weighing with tolerance range
(Checkweighing):
Input of an upper and lower limit value.
A visual signal assists with portion division, dispensing or grading

Draught shield
as standard, with hinged cover with pipette opening, on all models with readout $d = 0.001$ g. Weighing space $W \times D \times H$ 184x203x 90 mm

Automatic internal adjustment
PBJ only:
in the case of a change in temperature or time-controlled at defined intervals

Metal housing
robust and sturdy

Automatic data output
to the PC/
printer each time the balance reaches a steady state.

Freely programmable weighing unit e.g. immediate display in thread length g/m, paper weight g/m^2 , or similar.

Protective working cover standard. Can be reordered, € 10,-
For weighing plate sizes
A KERN PBS-A01
B KERN PBS-A02

Single-cell cutting edge technology
For details see page 36



- STANDARD**
- PBJ only
 - PBS only
 - PCS
 - PC RS 232
 - GLP
 - REZ
 - %
 - UNIT
 - TOL
 -
 - U
 - 230

Standard printer
KERN YKB-01N, € 270,-

Statistics printer
KERN YKT-01, € 690,-
For all printers, see page 94

Technical Data:

Overall dimensions (without draught shield)
 $W \times D \times H$ 200x320x80 mm
Net weight approx. 3,4 kg
Permitted environmental temperature +10 ... +30 °C

UNITS Further weighing units: see the internet

* Verification class I

I Verification at the factory, we need to know the full address of the location of use.

Model KERN	Weighing range Max g	Read-out d g	Verific. value e g	Min. load Min g	Repro-ducibility g	Linearity g	Weighing plate	Price € excl. of VAT, ex works	Veri-fication KERN	OPTION alternative M II €	Certi-ficate KERN	DKD €
PBS 420-3M	420	0,001	0,01	0,02	0,001	± 0,002	A	890,-	950-116 I	55,-	963-127	65,-
PBS 620-3M	620	0,001	-	-	0,001	± 0,002	A	1020,-	-	-	963-127	65,-
PBS 4200-2M	4200	0,01	0,1	0,5	0,01	± 0,02	B	950,-	950-116 I	55,-	963-127	65,-
PBS 6200-2M	6200	0,01	-	-	0,01	± 0,02	B	1080,-	-	-	963-128	80,-
PBS 8200-1M	8200	0,1	1	5	0,1	± 0,2	B	920,-	950-117 I	70,-	963-128	80,-
For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.												
PBJ 420-3M	420	0,001	0,01	0,02	0,001	± 0,002	A	1050,-	950-116 I	55,-	963-127	65,-
PBJ 620-3M*	620	0,001	0,01	0,1	0,001	± 0,002	A	1190,-	950-101 I	100,-*	963-101	125,-
PBJ 4200-2M	4200	0,01	0,1	0,5	0,01	± 0,02	B	1110,-	950-116 I	55,-	963-127	65,-
PBJ 6200-2M*	6200	0,01	0,1	1	0,01	± 0,02	B	1280,-	950-102 I	100,-*	963-102	160,-
PBJ 8200-1M	8200	0,1	1	5	0,1	± 0,2	B	1050,-	950-117 I	70,-	963-128	80,-



FACTORY OPTION



Weighing sum memory
adds single weighing results

Bright fluorescent display
with high contrast, digit height 15 mm



Glass draught shield
with removable metal cover, standard for all models with readout $d = 0.001g$, weighing space $W \times D \times H$ 155x155x55 mm

Price reduction

Stainless steel weighing plate
 A 135 x 135 mm
 B 170 x 170 mm, illustrated
 C 200 x 200 mm

Metal housing
robust and sturdy

STANDARD



FACTORY OPTION



Technical Data:

Overall dimensions
WxDxH
210x340x85 mm

Net weight
approx. 5 kg

Permitted environmental temperature
+10 ... +30 °C

UNITS Further weighing units: see the internet

*No verification approval

Capacity display
a bar graph shows the current available weighing range



Weighing with tolerance range (checkweighing)
Input in grams, pieces or % possible. A visual signal in the display helps with the dispensing or grading

User guidance
Step by step on the display



Main function keys
for transmitting deposited individual functions in the display. E.g. 4 reference quantities when piece counting or 4 secondary units

Software for KERN PRS-PRJ models. Update via the Internet.

Configuration menu

- To define the basic functions
- Language: German, English or French
 - Automatic internal adjusting (only KERN PRJ) can be programmed to any time of the day. Subsequent automatic adjusting every 24 hours or after a temperature change of $> 2^\circ C$.
 - Interface setting as baud rate, parity, etc.
 - Printing commands and formats
 - Date and time
 - Density determination of liquids and solids with direct display of the density. See also "Interesting facts about density determination" on page 33.

Application menu

- to define the balance to meet the user requirements
- Counting with freely selectable reference quantity, automatic reference optimisation
 - Call 4 secondary units, e.g. mg, ct etc.
 - Animal weighing function

Individual user configuration

For a personal or user specific definition. Can be called up independently of the existing programme configuration of the balance as a closed unit.

Update via the Internet

Future software updates, additional applications and other things can be loaded on to the balance through a PC with an internet link

Protective working cover over key pad and housing, standard. Can be reoured, **KERN PR-A25, € 10,-**

Protection IP 65 (only with rechargeable battery pack) for **PRS/PRJ 4200-2 N (NM)** and all models with readout **d = 0.1 g**. **Additional price € 150,-**. Please indicate at purchase: desired model with IP65 add-on e.g. **PRJ 8200-1 IP65 NM**

Rechargeable battery pack internal, operating time approx. 4 h, charging time approx. 12 h, **KERN PR-A22, € 275,-**

Data interfaces: Second RS 232 C, **KERN PR-A11, € 220,-** Analog, -10 V ... +10 V **KERN PR-A13, € 370,-** 20 mA current loop, **KERN PR-A12, € 220,-**



Statistics printer **KERN YKT-01, € 690,-**
Standard printer **KERN YKB-01N, € 270,-**
For all printers see page 94



Second display, tiltable, can be screwed to the back of the balance. Stand inclusive, stand height 240 mm, **KERN PR-A10, € 440,-**



Second display for the table, tiltable, cable length approx. 1.5 m, **KERN PR-A09, € 410,-**



Signal lamp yellow/green/red, includes mains adapter and interface cable, **KERN PR-A18, € 930,-**

Relay box includes interface cables, **KERN PR-A31, € 290,-**



Set for density determination of liquids and solids. Only suitable for models with readout **d = 0.001g**, consisting of:

- Board
 - Beaker
 - Thermometer
 - Plummet
 - Sifting pan
- KERN PR-A02, € 550,-**

Hook for suspended weighing **KERN PR-A04, € 28,-**



Draught shield with glass sliding doors left, right and on top. Weighing space **WxDxH 170x195x160 mm**. Refittable on all models with readout **d ≤ 0.01g**, **KERN PR-A01, € 215,-**



Interesting facts about the determination of density (Hydrostatic weighing)

Density determination: (specific gravity) 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 (Archimedes' principle).

Applications:

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

! Verification at the factory, we need to know the full address of the location of use.

Model KERN	Weighing range Max g	Read-out d g	Verific. value e g	Repro- duci- bility g	Linea- rity g	Weigh- ing plate	Price € excl. of VAT, ex works	Verifi- cation KERN	OPTIONS alternative M II Certifi- cate KERN €	DKD €
PRS 320-3N	320	0,001	-	0,001	± 0,002	A	1410,-	-	-	963-127 65,-
PRS 620-3N	620	0,001	-	0,001	± 0,002	A	1570,-	-	-	963-127 65,-
PRS 4200-2N	4200	0,01	-	0,01	± 0,02	B	1410,-	-	-	963-127 65,-
PRS 6200-2N	6200	0,01	-	0,01	± 0,02	B	1630,-	-	-	963-127 65,-
PRS 8200-1N	8200	0,1	-	0,1	± 0,1	C	1270,-	-	-	963-127 65,-
PRS 12200-1N	12200	0,1	-	0,1	± 0,1	C	1310,-	-	-	963-128 80,-
! For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.										
PRJ 320-3NM	320	0,001	0,01	0,001	± 0,002	A	1680,-	950-116 ! 55,-	963-127	65,-
PRJ 620-3NM	620	0,001	0,01	0,001	± 0,002	A	1850,-	950-116 ! 55,-	963-127	65,-
PRJ 1200-3N*	1220	0,001	-	0,002	± 0,003	A	2160,-	-	963-127	65,-
PRJ 4200-2NM	4200	0,01	0,1	0,01	± 0,02	B	1700,-	950-116 ! 55,-	963-127	65,-
PRJ 6200-2NM	6200	0,01	0,1	0,01	± 0,02	B	1910,-	950-117 ! 70,-	963-128	80,-
PRJ 8200-1NM	8200	0,1	1	0,1	± 0,1	C	1550,-	950-117 ! 70,-	963-128	80,-
PRJ 10200-1NM	10200	0,1	1	0,1	± 0,1	C	1620,-	950-117 ! 70,-	963-128	80,-



FACTORY OPTION



OPTION



Price reduction
New models



Carat switch-over from g to ct is possible.

Model	d	Max
	ct	ct
ABJ 80-4M	0,001	415
ABJ 120-4M	0,001	600
ABJ 220-4M	0,001	1100
ABJ 320-4	0,001	1600

The carat display is also verifiable.

Technical Data:
Overall dimensions WxDxH 225x315x330 mm
Weighing space WxDxH 190x155x225 mm
Net weight approx. 7 kg
Permitted environmental temperature +10 ... +30 °C
UNITS Further weighing units: see the internet

Metal housing
robust and sturdy

Large LCD Display
digit height 14 mm

Standard printer
KERN YKB-01N, € 270,-

Identification number
4 numeric positions, 2 key programming method

Capacity display
an ascending bar graph displays the remaining available weighing range

Statistics printer
KERN YKT-01, € 690,-
For all printers see page 94

Model KERN	Weighing range	Read-out	Verific. value	Min. load	Repro-ducibility	Linearity	Price € excl. VAT, ex. works	Verifi-cation KERN	OPTIONS alternative	DKD
	Max g	d mg	e mg	Min mg	mg	mg			M I Certificate KERN €	DKD €
ABS 80-4	83	0,1	-	-	0,1	± 0,2	730,-	-	- 963-101	125,-
ABS 120-4	120	0,1	-	-	0,1	± 0,2	780,-	-	- 963-101	125,-
ABS 220-4	220	0,1	-	-	0,1	± 0,2	860,-	-	- 963-101	125,-
For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.										
ABJ 80-4M	83	0,1	1	10	0,1	± 0,2	830,-	950-101	100,- 963-101	125,-
ABJ 120-4M	120	0,1	1	10	0,1	± 0,2	880,-	950-101	100,- 963-101	125,-
ABJ 220-4M	220	0,1	1	10	0,1	± 0,2	960,-	950-101	100,- 963-101	125,-
ABJ 320-4	320	0,1	1	10	0,1	± 0,2	1190,-	-	- 963-101	125,-

KERN AES-AEJ Compact high-end analytical balance

Delivery
1 day

3
Years warranty

Tuning fork
principle

FACTORY
OPTION

Verification
+7 days

OPTION
DKD
Certificate
+3 days



Set for density determination of solids with density ≥ 1 and liquids. The density is indicated directly in the display, for details see page 33, **KERN AES-A01, € 390,-**

Ergonomically optimised keypad for left and right-handed users

Automatic internal adjustment in the case of a change in temperature $\geq 5^\circ\text{C}$ or time-controlled every 4 hours

Capacity display an ascending bar graph displays the remaining available weighing range

GLP/ISO record keeping of weight values with date, time and serial number

NEW

STANDARD



2 PC items
RS 232



Compact housing with anti-static plastic draught shield with 3 sliding doors for easy access to the goods to be weighed

Short stabilisation time Steady weight values within approx. 4 sec under laboratory conditions

Backlit LCD display with digit height 17 mm



Standard printer KERN YKB-01N, € 270,-
For all printers see page 94

Technical Data:

Overall dimensions WxDxH 213x290x314 mm

Weighing space WxDxH 178x170x209 mm

Net weight approx 7 kg

Permitted environmental temperature +15 ... +30 °C

UNITS Further weighing units: see the internet

Modell KERN	Weighing range	Read-out	Verific. value	Min. load	Reproducibility	Linearity	Price € excl. VAT, ex. works	Verification KERN	OPTION M I	Certificate KERN	DKD
	Max g	d g	e g	Min g	g	mg			€	€	€
AES 120-4	120	0,1	-	-	0,1	± 0,3	1060,-	-	-	963-101	125,-
AES 220-4	220	0,1	-	-	0,1	± 0,3	1110,-	-	-	963-101	125,-
For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
AEJ 120-4M	120	0,1	1	10	0,1	± 0,3	1130,-	950-101	100,-	963-101	125,-
AEJ 220-4M	220	0,1	1	10	0,1	± 0,3	1180,-	950-101	100,-	963-101	125,-



FACTORY OPTION



OPTION



Set for density determination of liquids and solids, density is indicated directly on the display, **KERN ABT-A01, € 510,-**



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



Automatic internal adjustment CAL

Time-controlled $\geq 5^\circ\text{C}$ or variations in temperature all 4 hours



Automatic data output

to the PC/printer every time the balance is stable

Large LCD Display digit height 14 mm and capacity display

Pipette calibration

Good package price for the control of measuring equipment in accordance with ISO 9000 and GLP. See page 37

Identification number

of balance is printed on calibration protocol

Single-cell advanced technology

- Fully automatic manufactured weighing cell (s. page 31) from one piece of material.
- ✓ Stable temperature behaviour
 - ✓ Short stabilisation time: 3 sec (Stabilisation time under laboratory conditions) for models with read-out of 0.1 mg
 - ✓ Shock proof construction
 - ✓ High corner load performance

Dosing assistance

High-stability mode and other filter settings can be selected

Simple totalling of individual weighing

Standard printer
KERN YKB-01N, € 270,-

Statistics printer
KERN YKT-01, € 690,-
For all printers see page 94

Technical Data:

Overall dimensions
WxDxH 217x356x338 mm

Weighing space WxDxH
168x172x223 mm

Net weight approx. 7 kg

Permitted environmental temperature +10...+30 °C

STANDARD



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

Model	Weighing range Max g	Read-out d mg	Verific. value e mg	Min. load Min mg	Repro-ducibility mg	Linearity mg	Price € excl. VAT, ex. works	Verifi- cation KERN	OPTIONS alternative			
KERN									M	I	Certifi- cate KERN	DKD €
ABT 120-4M	120	0,1	1	10	0,1	± 0,2	1390,-	950-101	100,-	963-101	125,-	
ABT 220-4M	220	0,1	1	10	0,1	± 0,2	1510,-	950-101	100,-	963-101	125,-	
ABT 320-4M	320	0,1	1	10	0,1	± 0,2	1690,-	950-101	100,-	963-101	125,-	
ABT 120-5DM	42	0,01	1	1	0,02	± 0,03	1750,-	950-101	100,-	963-101	125,-	
	120	0,1			0,1	± 0,2						
ABT 220-5DM	82	0,01	1	1	0,05	± 0,1	1950,-	950-101	100,-	963-101	125,-	
	220	0,1			0,1	± 0,2						

KERN YBI-01



Ioniser to neutralise electrostatic charge

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, 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.

Technical data:

Neutralisation $\pm 20V$
Discharge of ozone 0,04 ppm/h
Dimensions WxDxH 97x53x31 mm, 150x150x90 mm incl. mount
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, € 710,-



Delivery 2 days



KERN YPS-01



Weighing table

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:

- 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, € 620,-

KERN SEM-4.0



Analytical balance similar to illustration

Pipette calibration

Control of measuring equipment in accordance with ISO 9001 and GLP directives require regular testing and any necessary adjustment of your pipettes.

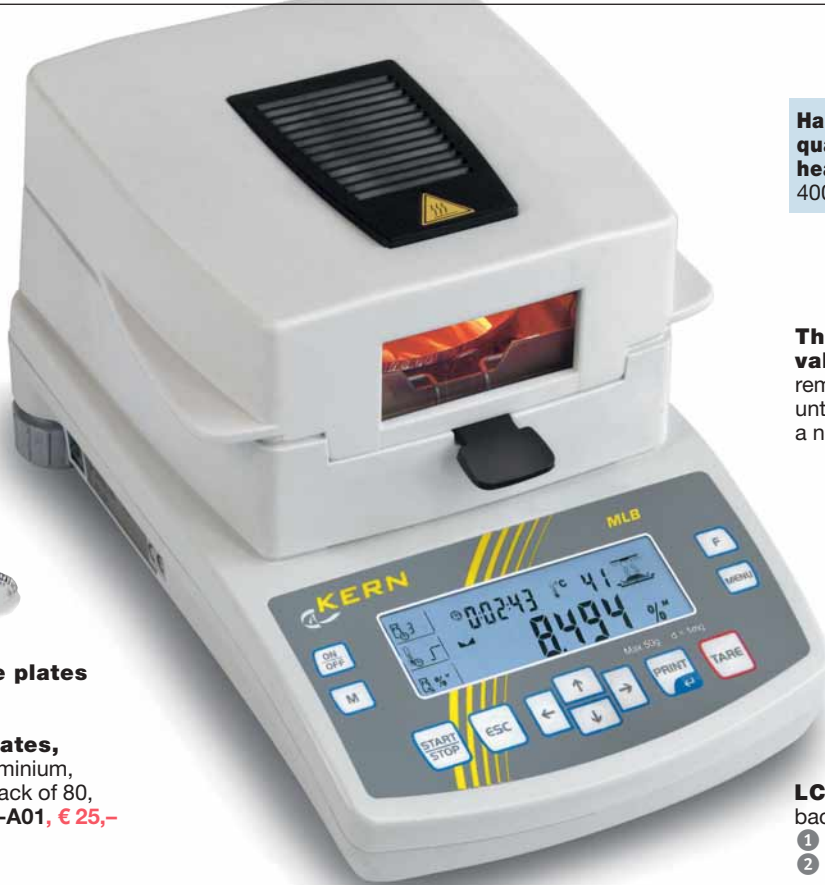
The **EASYCAL™ 4.0** test software on CD-ROM, will guide you safely through the PC-based pipette test procedure. It will carry out all calculations automatically and compare these with the tolerances of the current norms or your previously defined custom limit values. You can then print out a test record in accordance with ISO 4787, ISO DIN 8655 and other standards or save the test data on the PC. For additional information: see www.brand.de

Scope of supplies: Software on CD-ROM including operating instructions, **KERN SEM-4.0, € 350,-**

Our package solution for the control of measuring equipment in accordance with ISO 9000 and GLP (Good Laboratory Practice). The **KERN ABT 220-5DM** premium analytical balance is exactly the right balance for pipette calibration (see page 36). When purchased with the **EASYCAL™ 4.0** professional pipette test software, we can offer you a professional solution at a reduced price: **KERN ABT 220-5DAM** analytical balance and **EASYCAL™ 4.0** test software,

KERN ABT-P01, € 2250,-

-  Delivery 1 day
-  3 Years warranty
-  Force compensation



10 sample plates included

Sample plates, made of aluminium, Ø 92 mm. Pack of 80, KERN MLB-A01, € 25,-

Round fiberglass filters, e.g. for samples that splash or become encrusted. Pack of 100, KERN RH-A02, € 45,-

Temperature calibration set consists of measuring sensors and display device, not illustrated, KERN MLB-A11, € 200,-

Standard printer KERN YKB-01N, € 270,-
For all printers see page 94

Protective working cover standard. Can be reordered, KERN ALS-A02, € 10,-

Table of applications
There are many practical examples in the operating instructions

STANDARD

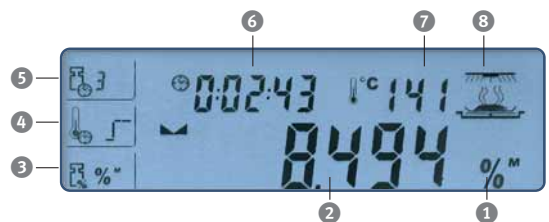
-  CAL EXT
-  PC RS 232
-  230 V

Halogen quartz glass heaters
400 W

The last measured value remains on the display, until it is overwritten by a new value

LCD graphic display, backlit

- 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



Technical data		Switch off criteria	
Readout	d 0,001 g or 0,01 %	When the set time has expired	10 min - 9 h 50 min
Weighing ra.	Max = maximum net weighing 50 g	When a constant weight per adjustable time unit has been reached	1 - 59 sec
Reproducibility on net weighing 2 g	0,5 %		
Reproducibility on net weighing 10 g	0,02 %		
Display after drying * SG = Starting weight [g]		Recall of measurement	
Moisture [%] = Weight loss (GV) vom SG*	0 - 100 %	Interval can be set from	1 - 180 sec
Dry mass [%] = residual (RG) from SG*	100 - 0 %	Only when used with printer KERN YKB-01 or PC	
ATRO [%] [(SG - RG) : RG] · 100%	0 - 999 %		
Display can be switched at any time			
Heating / temperature setting		Overall dimensions	
Temperature range	50° - 160°C in steps up to 1°C	Net weight approx.	WxDxH 210x335x156 m approx. 6 kg
KERN MLB 50-3N Price excluding VAT ex works € 1220,-			

- Delivery 1 day
- 3 Years warranty
- Force compensation



Halogen quartz glass heaters
400 W

- STANDARD
- CAL EXT
 - PC RS 232
 - GLP
 - 230

The last value measured remains on the display, until it is overwritten by a new value

10 sample plates included

Sample plates made of aluminium, Ø 92 mm. Pack of 80, **KERN MLB-A01, € 25,-**

Round fiberglass filters, e.g. for samples that splash or become encrusted. Pack of 80, **KERN RH-A02, € 45,-**

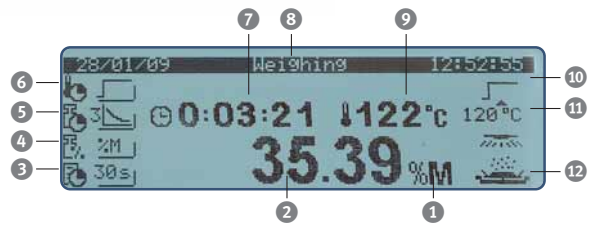
AUTO temperature calibration set with automatic adjustment function using RS 232 C, **KERN MLB-A11, € 200,-**

Standard printer **KERN YKB-01N, € 270,-** For all printers see page 94

Protective working cover standard. Can be reordered, **KERN ALS-A02, € 10,-**

Table of applications There are many practical examples in the operating instructions

- LCD graphic display, backlit**
- 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



Technical data for all models	
Readout	d 0,001 g oder 0,01 %
Weighing ra.	Max = maximum weight of sample 50 g
Reproducibility on net weighing 2 g	0,5 %
Reproducibility on net weighing 10 g	0,02 %
Display after drying * SG = Starting weight [g]	
Moisture [%] = weight loss (GV) from SG*	0 - 100 %
Dry mass [%] = residual weight (RG) from SG*	100 - 0 %
ATRO [%] [(SG - RG) : RG] · 100%	0 - 999 %
Residual weight [g] [(RG)	Absolute value in [g]
Display can be switched at any time	
Heating / temperature setting	
Temperature range 50° - 160°C	in steps up to 1°C
<input type="checkbox"/> Standard drying	<input type="checkbox"/> Drying in levels
<input type="checkbox"/> Gentle drying	<input type="checkbox"/> Pre-heat level
Heater type halogen: Temperature range 50° - 160°C:	

Switch off criteria	
When the set time has expired	1 min - 9 h 59 min
When the weight loss per time unit is less than the target - value, both values can be adjusted	mg/sec
Recall of measurement	
Interval can be set from	1 sec - 5 min
Only when used with printer KERN YKB-01 or PC	
Enhanced functions	
<ul style="list-style-type: none"> • Balance internal memory for the automatic processing 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 	
Overall dimensions	WxDxH 210x335x156 mm
Net weight approx.	approx. 6,3 kg
KERN MLS 50-3HA160N Price excl. VAT ex works € 1450,-	

-  Delivery 1 day
-  3 Years warranty
-  Force compensation





Table of applications
There are many practical examples in the operating instructions

30 sample plates included

Sample plates
made of aluminium, Ø 92 mm.
Pack of 80.,
KERN MLB-A01, € 25,-

Temperature calibration set consists of measuring sensor and analysis box.
KERN MRS-A01, € 530,-



- Halogen quartz glass heaters**
400 W
- STANDARD**
-  CAL EXT
-  PC RS 232
-  GLP
-  230 V

Observation window
over the sample, useful during initial adjustment

 **Adjustment program CAL**
External test weights available at an additional price



4 displays
for results in % or g, heating mode, temperature and time

Round fiberglass filters, e.g. for samples that splash or become encrusted. Pack of 80,
KERN RH-A02, € 45,-

Protective working cover over the keypad, standard. Can be reordered,
KERN PR-A25, € 10,-

The last measured value remains on display until overwritten by a new value

Standard printer
KERN YKB-01N, € 270,-
For all printers see page 94

Measurement recall
interval adjustment of 0,1 – 10 min with automatic number sampling. Only in combination with YKB-01 or PC

Technical data		Switch off criteria	
Readout	d 0,001 g oder 0,01 %	When the set time has expired	0,1 - 240 min
Weighing ra.	Max = maximum weight of sample 124 g	When constant weight has been achieved	
Reproducibility weight of sample 2 g	0,2 %	When loss in weight per unit of time falls below the target value, both values can be adjusted	[g/min] or [%/min]
Reproducibility weight of sample 10 g	0,02 %		
Display after drying * SG = Starting weight [g]		Extended functions	
Moisture [%] = weight loss (GV) fom SG*	0 - 100 %	• Balance internal memory for the automatic processing of 20 complete drying processes	
Dry mass [%] = residual weight (RG) from SG*	100 - 0 %	• Net weighing assistance to a defined target value [g] with adjustable tolerance range	
ATRO [%] (SG : RG) · 100%	100 - 999 %	• Internal clock for date and time as standard	
ATRO [%] [(SG - RG) : RG] · 100%	0 - 999 %	• Simple "step-by-step" user guidance in the display in the following languages: German, English, French	
Weight loss [g] (GV)	Absolute value in [g]		
Residual weight [g] (RG)	Absolute value in [g]		
Heating / temperature setting		Overall dimensions	WxDxH 210x340x170 mm
Temperature range 30 - 230°C	in steps up to 1°C	Net weight approx.	ca. 6,3 kg
<input type="checkbox"/> Pre-heat level	0,1 - 99 min	KERN MRS 120-3 Price excluding VAT ex works € 2320,-	
<input type="checkbox"/> Standard drying			
<input type="checkbox"/> Gentle drying, final temperature reached after 4 min			

 **Delivery**
1 day

 **Years**
warranty

 **Strain**
gauge

 **Best buy**
≥ 3 pcs.

OPTION
DKD
Certificate
+3 days

STANDARD

 **CAL**
EXT

 **230V**

 **TAR**

FACTORY
OPTION


 **AKU**

Bench scales

4

KERN ECB




 **Battery operation possible**
Battery size AA (6x 1.5 V) not included.
Operating time approx. 100 h

 **Adjustment program CAL**, external test weights available at an add. price

Large LCD Display
digit height 14 mm, for model **ECB** backlit

Technical Data:
Overall dimensions (both models) WxDxH 320x300x60 mm
Permitted environmental temperature +5 ... +35 °C

 **Rechargeable battery pack**
internal, operating time approx. 100 h, charging time approx. 10 h,
KERN PCB-A01, € 25,-

Simple to use
with just 2 keys

Fast display
Stabilisation time only 2 sec

Extremely flat construction, only 60 mm high



This balance is specially suitable for mobile use thanks to its battery supply and flat construction



KERN ECE

Like **KERN ECB** but with impact resistant plastic weighing plate

Model	Weighing range Max kg	Read-out d g	Repro-ducibility g	Linea-rity g	Price in €/piece excl. VAT, ex works		OPTION	
					1 piece	≥ 3 pcs.	Certi-ficate KERN	DKD €/piece
KERN								
ECE 10K10	10	10	10	± 20	89,-	76,-	963-128	80,-
ECE 20K20	20	20	20	± 40	89,-	76,-	963-128	80,-
ECE 50K50	50	50	50	± 100	89,-	76,-	963-128	80,-
ECB 10K10	10	10	10	± 20	110,-	94,-	963-128	80,-
ECB 20K20	20	20	20	± 40	110,-	94,-	963-128	80,-
ECB 50K50	50	50	50	± 100	110,-	94,-	963-128	80,-



STANDARD



OPTION



Parcel and letter scale at a bargain price



Checking and production scale at a bargain price

Easy to use
with 2 keys only

Protective working cover over keyboard and housing as standard. Can be reordered, **€ 10,-**
For weighing plate sizes
A KERN FCB-A02
B KERN FKB-A02



Weighing plate **A**

Fast display
Stabilisation time approx. 2 sec

Rechargeable battery pack
internal AUTO-OFF function after 3 min to preserve the rechargeable battery pack, can be switched off.

For weighing plate size **A** :
Operating time approx. 20 h,
charging time approx. 10 h,
KERN FCB-A01, € 25,-

For weighing plate size **B** :
Operating time approx. 8 h,
charging time approx. 10 h,
KERN PCB-A01, € 25,-

Large LCD display
with digit height 25 mm



Battery operation possible
Block battery (9 V) non-standard.
AUTO-OFF function after 3 min without a change of load to preserve the battery.
Operating time approx. 12 h

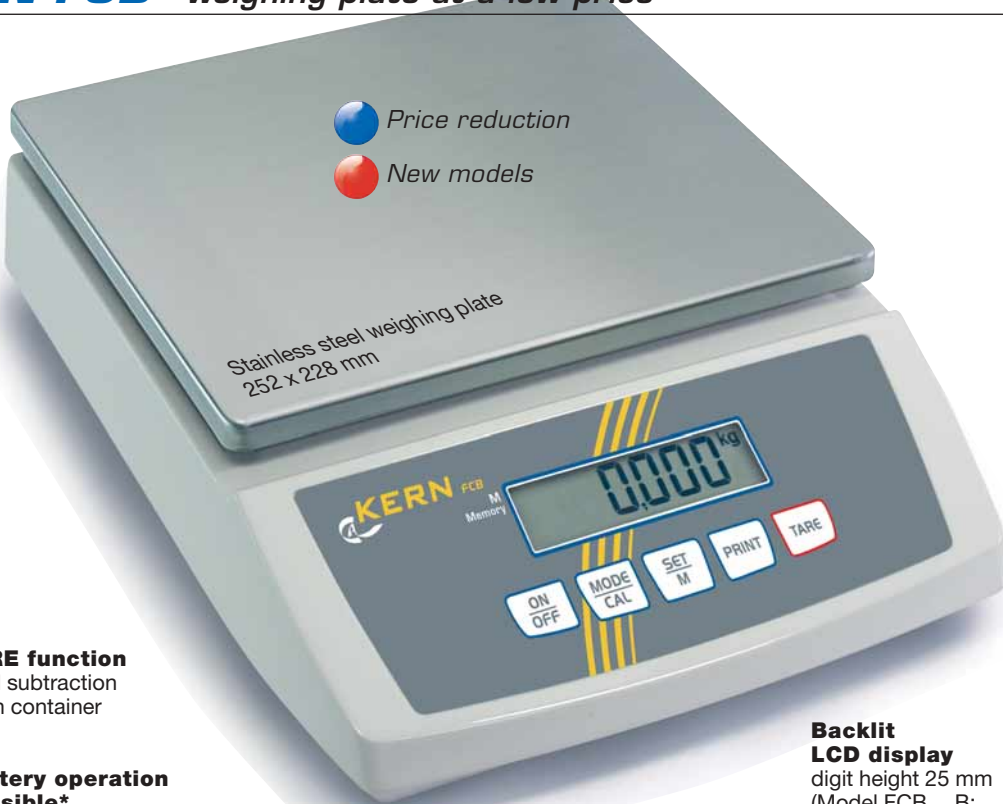
Technical data:

Overall dimensions
for weighing plate size **A**
WxDxH 270x345x106 mm

Overall dimensions
for weighing plate size **B**
WxDxH 350x390x120 mm

Permitted environmental temperature +5 ... +35 °C

Model	Weighing range Max kg	Read-out d g	Repro-ducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price in €/piece excl. VAT, ex works		OPTION	
							1 piece	≥ 3 pcs.	Certifi- cate KERN	DKD €/piece
FCE 3K1	3	1	1	± 2	3	A	110,-	94,-	963-127	65,-
FCE 6K2	6	2	2	± 4	3	A	110,-	94,-	963-128	80,-
FCE 15K5	15	5	5	± 10	3	A	110,-	94,-	963-128	80,-
FCE 30K10	30	10	10	± 20	3	A	110,-	94,-	963-128	80,-
FCE 30K10L	30	10	10	± 20	6,5	B	160,-	136,-	963-128	80,-
FCE 60K20	60	20	20	± 40	6,5	B	160,-	136,-	963-129	95,-



Price reduction
New models

- STANDARD**
- CAL EXT
 - PCS
 - PC RS 232
 - REZ
 - UNIT
 - BAT
 - 230V
- OPTION**
- AKU

PRE-TARE function
for manual subtraction of a known container weight

Battery operation possible*
Block battery (9 V) not included



Second display*
on the rear of the balance
*not Model FCB...B

Rechargeable battery pack
internal
Model FCB ...B:
KERN FCB-A03B, € 25,-
all the other models:
KERN FCB-A01, € 25,-

Protective working cover
over keypad, standard.
Can be reordered,
KERN FCB-A02, € 10,-

Standard printer,
KERN YKB-01N, € 270,-

Label printer,
with printout configuration and barcode function*,
KERN YKL-01, € 650,-

Statistics printer,
KERN YKT-01, € 690,-

For all printers, see page 94.
See also "Individual header data"

Backlit LCD display
digit height 25 mm
(Model FCB ...B: 18 mm)

Technical Data:

Overall dimensions
WxDxH 270x345x106 mm
Net weight approx. 3 kg
Permitted environmental temperature
FCB: +5 ... +35 °C
FCB ...B: +10 ... +40 °C

UNITS Further weighing units: see the internet

Model	Weighing range Max kg	Read-out d g	Repro-ducibility g	Linea-rity g	Min. piece weight at piece count. g/piece	Price in €/piece excl. VAT, ex works		OPTION	
						1 piece	≥ 3 pcs.	Certifi-cate KERN	DKD €/piece
KERN									
FCB 3K0.1	3	0,1	0,1	± 0,3	0,2	195,-	166,-	963-127	65,-
FCB 8K0.1	8	0,1	0,1	± 0,3	0,2	250,-	215,-	963-128	80,-
FCB 16K0.2	16	0,2	0,2	± 0,6	0,4	250,-	215,-	963-128	80,-
FCB 6K0.5	6	0,5	0,5	± 1,5	1	170,-	145,-	963-128	80,-
FCB 30K0.5	30	0,5	0,5	± 1,5	1	250,-	215,-	963-128	80,-
FCB 12K1	12	1	1	± 3	2	160,-	136,-	963-128	80,-
FCB 30K1	30	1	1	± 3	2	195,-	166,-	963-128	80,-
FCB 24K2	24	2	2	± 6	4	170,-	145,-	963-128	80,-
FCB 15K5	15	5	5	± 10	10	150,-	128,-	963-128	80,-
FCB 24K10	24	10	10	± 20	20	150,-	128,-	963-128	80,-
High-resolution display									
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,-



Price reduction
 New models

STANDARD



OPTION



Battery operation possible

Block battery (9 V) not included.
Operating time approx. 70 h



Rechargeable battery pack

internal, operating time approx. 8 h, charging time approx. 10 h,
KERN PCB-A01, € 25,-

Freely programmable weighing unit e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar

Large Backlit LCD display

digit height 25 mm

PRE-TARE function

for manual subtraction of a known container weight

Protective working cover standard.

Can be reordered, **KERN FKB-A02, € 10,-**

Standard printer

KERN YKB-01N, € 270,-

Label printer

with printout configuration and barcode function,
KERN YKL-01, € 650,-

Statistics printer

KERN YKT-01, € 690,-

For all printers see page 94.
See also "Individual header data"

Technical Data:

Overall dimensions
WxDxH 350x390x120 mm

Net weight approx. 6 kg

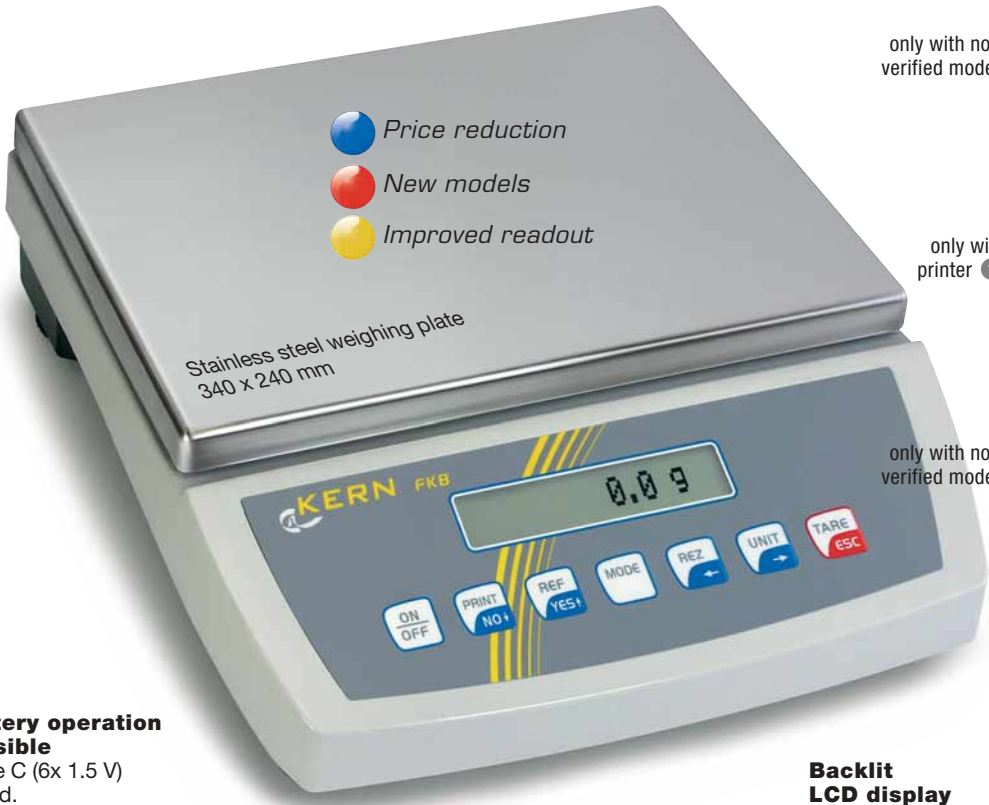
Permitted environmental temperature +5 ... +35 °C

UNITS Further weighing units: see the internet

Model	Weighing range	Read-out	Repro-ducibility	Linearity	Min. piece weight at piece count.	Price €	OPTION	
KERN	Max	d	g	g	g/piece	excl. VAT, ex works	Certifi-cate KERN	
	kg	g	g	g			DKD	
							€	
FKB 8K0.1A	8	0,1	0,1	± 0,3	0,2	290,-	963-128	80,-
FKB 16K0.2A	16	0,2	0,2	± 0,6	0,4	290,-	963-128	80,-
FKB 15K0.5A	15	0,5	0,5	± 1,5	1	250,-	963-128	80,-
FKB 36K0.5A	36	0,5	0,5	± 1,5	1	290,-	963-128	80,-
FKB 15K1A	15	1	1	± 2	2	220,-	963-128	80,-
FKB 30K1A	30	1	1	± 3	2	260,-	963-128	80,-
FKB 65K1A	65	1	1	± 3	2	290,-	963-129	95,-
FKB 30K2A	30	2	2	± 6	4	220,-	963-128	80,-
FKB 60K2A	60	2	2	± 6	4	260,-	963-129	95,-
FKB 60K5A	60	5	5	± 15	10	220,-	963-129	95,-
FKB 30K5DA	15 30	5 10	5 10	± 15 30	10	200,-	963-128	80,-
FKB 60K10DA	30 60	10 20	10 20	± 30 60	20	200,-	963-129	95,-



FACTORY OPTION



- Price reduction
- New models
- Improved readout

STANDARD

only with non-verified models



only with printer 1



only with non-verified models



OPTION

Battery operation possible

Battery size C (6x 1.5 V) not included. Operating time approx. 70 h

Rechargeable battery pack

external, operating time 50 h, charging time approx. 10 h, KERN KS-A01, € 135,-

not 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



Precise counting
The automatic optimisation of reference weight gradually improves the average value of the piece weight

Protective working cover
standard. Can be reordered, KERN FKB-A02, € 10,-

PRE-TARE function
for manual subtraction of a known container weight

Standard printer
KERN YKB-01N, € 270,-

Label printer
KERN YKL-01, € 650,-

1 Statistics printer
KERN YKT-01, € 690,-

For all printers see page 94.

Backlit LCD display
digit height 18 mm

Technical Data:

Overall dimensions
WxDxH 350x390x120 mm

Net weight approx. 6 kg

Permitted environmental temperature +10 ... +40 °C

UNITS Further weighing units (only for models without M add-on): see the internet

! Verification at the factory, we need to know the full address of the location of use.

Model	Weighing range Max kg	Read-out d g	Verific. value e g	Repro-ducibility g	Linearity g	Min. piece weight at piece count. g/piece	Price € excl. VAT, ex works	Verifi- cation KERN	OPTIONS alternative		
									M III €	Certifi- cate KERN	DKD €
FKB 6K0.02	6,1	0,02	-	0,02	± 0,06	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	390,-	-	-	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	± 0,3	0,1	420,-	-	-	963-128	80,-
FKB 36K0.2	36,1	0,2	●	0,2	± 0,6	200	390,-	●	-	963-128	80,-
FKB 65K0.2	65,1	0,2	-	0,2	± 0,6	0,2	420,-	-	-	963-129	95,-
FKB 65K0.5	65,1	0,5	●	0,5	± 1,5	0,5	390,-	●	-	963-129	95,-
For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
FKB 15K0.1M	15	0,1	1	0,1	± 0,3	0,1	580,-	950-117	! 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	! 50,-	963-128	80,-
FKB 65K1M	65	1	10	1	± 2	1	580,-	950-118	! 100,-	963-129	95,-



FACTORY
OPTION



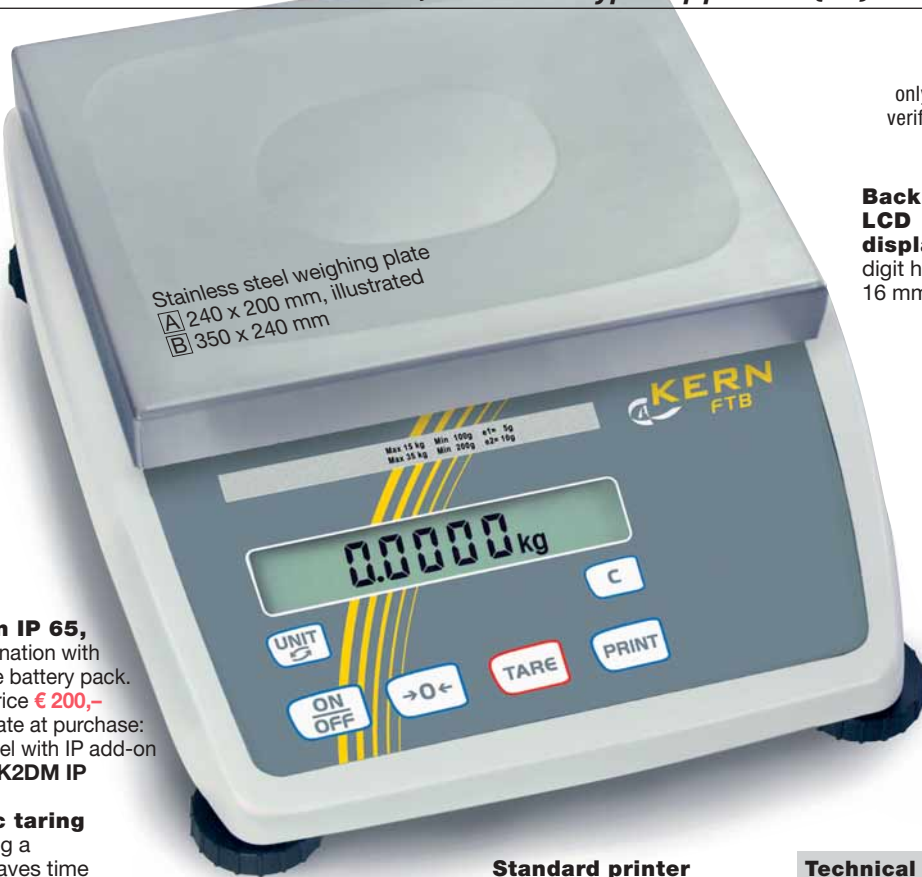
Protection IP 65,
not in combination with
rechargeable battery pack.
Additional price **€ 200,-**
Please indicate at purchase:
desired model with IP add-on
e.g. FTB 15K2DM IP

Automatic taring
when placing a
container, saves time

Ethernet interface
allows you to connect
the scale to a network,
see page 95,
KERN FTB-A09, € 550,-

Protective working cover
standard. Can be reordered,
for weighing plate sizes
A **KERN FTB-A02, € 18,-**
B **KERN FTB-A03, € 20,-**

Rechargeable battery pack,
internal, operating time
90 h, charging time 6 h.
Not in combination with
IP 65, **€ 260,-**
For weighing plate sizes
A **KERN FTB-A05**
B **KERN FTB-A06**



STANDARD

only with non-
verified models



FACTORY
OPTION



**Backlit
LCD
display**
digit height
16 mm

Standard printer
KERN YKB-01N, € 270,-

Label printer
with printout configuration
and barcode function,
KERN YKL-01, € 650,-

Statistics printer
KERN YKT-01, € 690,-
For all printers see page 94.
See also "Individual header
data"

Technical Data:

Overall dimensions
for weighing plate size A
WxDxH 265x335x100 mm
for weighing plate size B
WxDxH 360x370x115 mm

**Permitted environmental
temperature** -10...+40 °C

UNITS Further weighing
units: see the internet

Dual-range balance: KERN FTB 15K2DM **Max** = 15 kg, **d₁** = 2 g (from 0- 6kg), **d₂** = 5 g (from 6-15kg)

Model	Weighing range Max kg	Read-out d g	Verific. value e g	Min. load Min g	Net weight approx. kg	Weigh- ing plate	Price € excl. VAT, ex works	Verifi- cation KERN	M III €	Certifi- cate KERN	DKD €
FTB 3K0.1	3	0,1	-	-	4,6	A	560,-	-	-	963-127	65,-
FTB 6K0.2	6	0,2	-	-	4,6	A	560,-	-	-	963-128	80,-
FTB 15K0.5	15	0,5	-	-	4,6	A	560,-	-	-	963-128	80,-
FTB 15K0.5L	15	0,5	-	-	8,2	B	640,-	-	-	963-128	80,-
FTB 35K1	35	1	-	-	8,2	B	640,-	-	-	963-128	80,-
FTB 60K2	60	2	-	-	8,2	B	640,-	-	-	963-129	95,-
For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. d ₁ d ₂ = Dual-range scale (D=Dual) switches over automatically											
FTB 3K0.5DM	1,5 3	0,5 1	0,5 1	10	4,6	A	560,-	950-127	45,-	963-127	65,-
FTB 6K1DM	3 6	1 2	1 2	20	4,6	A	560,-	950-128	50,-	963-128	80,-
FTB 15K2DM	6 15	2 5	2 5	40	4,6	A	560,-	950-128	50,-	963-128	80,-
FTB 15K2DLM	6 15	2 5	2 5	40	8,2	B	640,-	950-128	50,-	963-128	80,-
FTB 35K5DM	15 35	5 10	5 10	100	8,2	B	640,-	950-128	50,-	963-128	80,-
FTB 60K10DM	30 60	10 20	10 20	200	8,2	B	640,-	950-129	75,-	963-129	95,-

- Delivery 1 day
- 2 Years warranty
- Strain gauge
- Best buy ≥ 3 pcs.
- OPTION DKD Certificate +3 days**



KERN EOL



EOL only:
Mains adapter
not standard, available separately,
KERN 440-902, € 13,-

STANDARD



Weighing plate
Lacquered steel,
extremely flat construction

EOL only

EOL only

Both models:
Battery operation possible
EOL only:
Batteries as standard.
Operating time approx. 60 h

Both models:
Large LCD Display
digit height 25 mm

Both models:
Easy to use
with 4 keys only

EOE only:
Non-slip rubber mat
945x505 mm,
KERN EOE-A01, € 20,-



KERN EOE

New models

Technical data:

EOL display device
WxDxH 160 x 90 x 32 mm

EOE display device
WxDxH 210 x 110 x 45 mm

Permitted environmental temperature +10 ... +35 °C

UNITS Further weighing units: see the internet

EOE only:
Wall mount
for the display as standard

Weighing plate
Lacquered steel
505x505x65 mm,
illustrated

EOE only:
Animal weighing program
When the animal moves during the weighing process, a stable average value is obtained by using the HOLD key. This value remains "frozen" until the HOLD key is pressed again

Model	Weighing range Max kg	Read-out d g	Repro-ducibility g	Linearity g	Net weight approx. kg	Cable length approx. m	Weighing plate approx. mm	Price in €/piece excl. VAT ex works		OPTION DKD	
								1 piece	≥ 3 pcs.	Certificate KERN	€/piece
EOL 60K100	60	100	100	± 200	1,4	2,6	293x270x35	90,-	77,-	963-129	95,-
EOL 120K200	120	200	200	± 400	1,4	2,6	293x270x35	90,-	77,-	963-129	95,-
EOE 6K5	6	5	5	± 10	4,2	1,8	310x300x65	115,-	98,-	963-128	80,-
EOE 15K10	15	10	10	± 20	4,2	1,8	310x300x65	115,-	98,-	963-128	80,-
EOE 35K20	35	20	20	± 40	4,2	1,8	310x300x65	115,-	98,-	963-128	80,-
EOE 60K50	60	50	50	± 100	4,2	1,8	310x300x65	115,-	98,-	963-129	95,-
EOE 150K100	150	100	100	± 200	4,2	1,8	310x300x65	115,-	98,-	963-129	95,-
EOE 150K100L	150	100	100	± 200	14	1,8	505x505x65	220,-	187,-	963-129	95,-
EOE 150K100XL	150	100	100	± 200	20	1,8	945x505x65	290,-	247,-	963-129	95,-
EOE 300K200L	300	200	200	± 400	14	1,8	505x505x65	220,-	187,-	963-129	95,-
EOE 300K200XL	300	200	200	± 400	22	1,8	945x505x65	290,-	247,-	963-129	95,-

KERN EOB-EOS *Affordable parcel and animal scale*



KERN EOB

Stainless steel weighing plate size **A**, illustrated

only EOB with weighing plate **C**:
Rubber mat,
KERN EOE-A01, € 20,-

Weighing plate sizes:
A 310 x 300 x 55 mm
B 550 x 550 x 65 mm
C 945 x 505 x 65 mm

EOB only:
Stand, height approx. 450 mm, only for Model with weighing plate **A**,
KERN EOB-A01, € 35,-

EOS only:
Comfortable transport
by 2 rollers and one handle



KERN EOS

Stainless steel weighing plate
D 900 x 550 x 60 mm

EOS only:
Rubber mat
standard.
Can be reordered,
KERN EOS-A01, € 20,-

EOS only:
Stand to elevate the display device, stand height approx. 450 mm,
KERN MWS-A01, € 110,-

STANDARD



Both models:
Large LCD Display
digit height 25 mm

Both models:
Wall mount
for display device, standard

Both models:
Simple to use
with just 4 keys

Both models:
Battery operation possible
Battery size AA (6 x 1.5V) not included. Operating time approx. 60 h

Both models:
Animal weighing program When the animal moves during the weighing process, a stable average value is obtained by using the HOLD key. This value remains "frozen" until the HOLD key is pressed again

Both models:
Technical Data:

Display device
WxDxH 210x110x45 mm

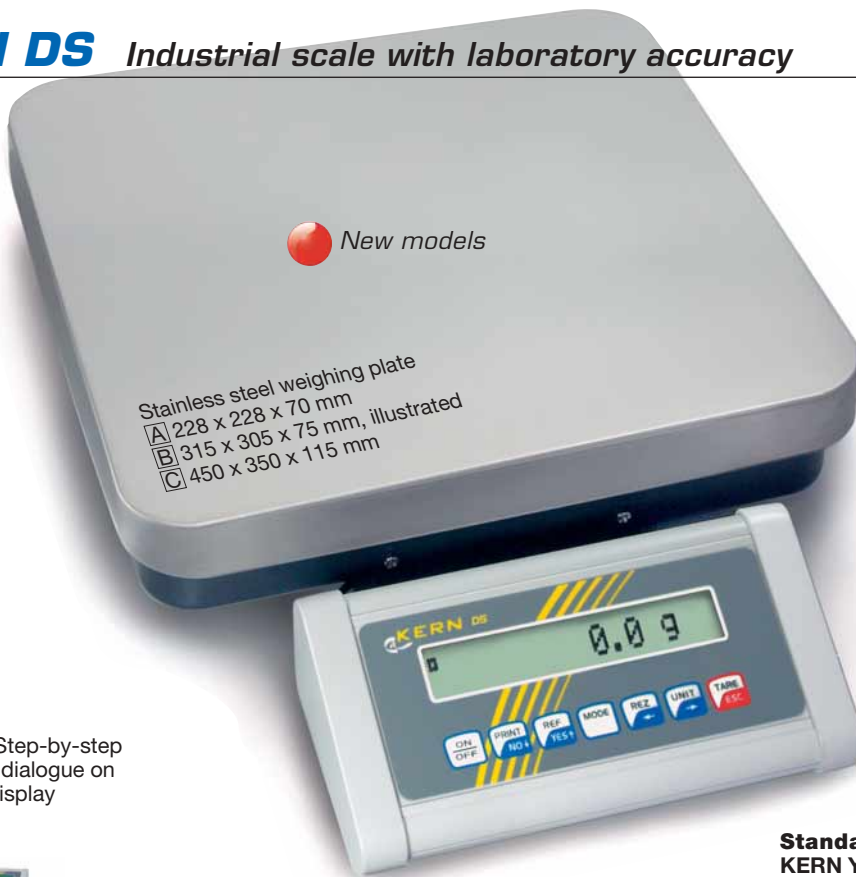
Cable length approx. 1,8 m

Permitted environmental temperature +10... +35 °C

UNITS Further weighing units: see the internet

Model	Weighing range Max kg	Read-out d g	Net weight approx. kg	Weighing plate	Price in €/piece excl. of VAT, ex works		OPTION	
					1 piece	≥ 3 pcs.	Certificate KERN	DKD €/piece
KERN								
EOB 6K5N	6	5	4	A	130,-	111,-	963-128	80,-
EOB 15K10N	15	10	4	A	130,-	111,-	963-128	80,-
EOB 35K20N	35	20	4	A	130,-	111,-	963-128	80,-
EOB 60K50N	60	50	4	A	130,-	111,-	963-129	95,-
EOB 60K50NL	60	50	14	B	310,-	264,-	963-129	95,-
EOB 150K100N	150	100	4	A	130,-	111,-	963-129	95,-
EOB 150K100NL	150	100	14	B	310,-	264,-	963-129	95,-
EOB 150K100NXL	150	100	24	C	360,-	305,-	963-129	95,-
EOB 300K100N	300	100	4	A	150,-	128,-	963-129	95,-
EOB 300K200NL	300	200	14	B	310,-	264,-	963-129	95,-
EOB 300K200NXL	300	200	24	C	360,-	305,-	963-129	95,-
EOS 150K100NXL	150	100	25	D	410,-	350,-	963-129	95,-
EOS 300K200NXL	300	200	25	D	410,-	350,-	963-129	95,-

KERN DS Industrial scale with laboratory accuracy



New models

Stainless steel weighing plate
A 228 x 228 x 70 mm
B 315 x 305 x 75 mm, illustrated
C 450 x 350 x 115 mm

STANDARD



Operation Step-by-step using Yes/No dialogue on backlit LCD display



Stand to elevate the display device, stand height approx. 450 mm.

Only for models with weighing plate **B**, **C**.
KERN DE-A01, € 35,-



Precise counting
 The automatic optimisation of reference weight gradually improves the average value of the piece weight

Numerical subtraction of tare weight
 for known container weight. Useful for checking fill-levels

Protective working cover
 over the key pad, standard. Can be reordered,
KERN DE-A02, € 10,-

Rechargeable battery pack,
 external, operating time approx. 50 h, charging time 10 h,
KERN KS-A01, € 135,-

Standard printer
KERN YKB-01N, € 270,-

Label printer
KERN YKL-01, € 650,-

Statistics printer
KERN YKT-01, € 690,-
 For all printers see page 94

Technical Data:

Display device
 WxDxH 200x100x55 mm

UNITS Further weighing units: see the internet



Display device can be detached

Model	Weighing range Max kg	Read-out d g	Repro-ducibility g	Linearity g	Min. piece weight at piece count. g/piece	Net weight approx. kg	Cable length approx. m	Weighing plate	Price € excl. of VAT, ex works	OPTION DKD Certificate KERN €
DS 5K0.05S	5,1	0,05	0,05	± 0,15	0,05	5,1	0,6	A	530,-	963-127 65,-
DS 8K0.05	8,1	0,05	0,05	± 0,15	0,05	7,5	1,5	B	550,-	963-128 80,-
DS 15K0.05S	15,1	0,05	0,05	± 0,15	0,05	5,1	0,6	A	560,-	963-128 80,-
DS 15K0.05	15,1	0,05	0,05	± 0,15	0,05	7,5	1,5	B	580,-	963-128 80,-
DS 10K0.1S	10,1	0,1	0,1	± 0,3	0,1	5,1	0,6	A	530,-	963-128 80,-
DS 16K0.1	16,1	0,1	0,1	± 0,3	0,1	7,5	1,5	B	550,-	963-128 80,-
DS 20K0.1	20,1	0,1	0,1	± 0,3	0,1	7,5	1,5	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	640,-	963-128 80,-
DS 36K0.2	36,1	0,2	0,2	± 0,6	0,2	7,5	1,5	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,-

KERN DE *Multi functional scale for parcels, counting, mixing, checking*

Platform scales

5

STANDARD



OPTION



Price reduction

Stainless steel weighing plate
A 315 x 305 x 75 mm
B 308 x 318 x 85 mm
C 510 x 405 x 85 mm
D 522 x 403 x 85 mm, illustrated
E 650 x 500 x 105 mm



Weighing plate **A**
315 x 305 mm

CAL adjustment program
Test weights available at an additional price

Battery operation possible
Block battery (9 V) not included.

Backlit LCD display
digit height 25 mm

PRE-TARE function
for manual subtraction of a known container weight

Protective working cover
over key pad, standard. Can be reordered, **KERN DE-A02, € 10,-**

Rechargeable battery pack,
internal, operating time approx. 15 h, charging time approx. 10 h,
KERN FCB-A01, € 25,-



Stand to elevate the display device, stand height approx. 450 mm,
KERN DE-A01, € 35,-



Set for suspended weighing,
consists of platform, hook. Only for models up to **Max** 36 kg and weighing plate **A**,
KERN DS-A01, € 80,-

Technical Data:

Display device
WxDxH 200x100x55 mm

Permitted environmental temperature 5 ... +35 °C

UNITS Further weighing units: see the internet



Weighing plate **E**
650 x 500 mm



Max d

DKD

DE 3K1N 3 1 2 1,5 4 A

KERN EOB-M *Affordable parcel scale, now with EC-Type Approval (M)*

Platform scales

5



STANDARD only with non-verified models



Stand
to elevate the display device, stand height approx. 450 mm
KERN EOB-A01, € 35,-



Battery operation possible
Battery size AA (6x 1.5V) not included. AUTO-OFF function after 3 min with no load change to preserve battery. Operating time approx. 60 h

Simple to use
with just 4 keys



Animal weighing program When the animal moves during the weighing process, a stable average value is obtained by using the HOLD key. This value remains "frozen" until the HOLD key is pressed again

Large LCD Display
digit height 25 mm

Wall mount
for display device, standard

Technical Data:

Display device
WxDxH 210x110x45 mm

Cable length approx. 1,8 m

Permitted environmental temperature -10...+35 °C

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

Model	Weighing range Max kg	Read-out d g	Verific. value e g	Min. load Min g	Net weight approx. kg	Price in €/piece excl. of VAT, ex works		Verification KERN	OPTIONS alternative		
						1 piece	≥ 3 pcs		M III €	Certificate KERN	DKD €/piece
KERN EOB 6K2M	6	2	2	40	3,6	260,-	220,-	950-128	50,-	963-128	80,-
EOB 15K5M	15	5	5	100	3,6	260,-	220,-	950-128	50,-	963-128	80,-
EOB 30K10M	30	10	10	200	3,6	260,-	220,-	950-128	50,-	963-128	80,-
EOB 60K20M	60	20	20	400	3,6	260,-	220,-	950-129	75,-	963-129	95,-
EOB 150K50M	150	50	50	1000	3,6	260,-	220,-	950-129	75,-	963-129	95,-



FACTORY OPTION



OPTION DKD Certificate +3 days

Steel substructure ▶ lacquered



Stand to elevate the display device for weighing plate size **A**: stand height approx. 450 mm, **KERN VB-A08, € 66,-** for weighing plate size **≥ B**: stand height approx. 800 mm, **KERN VB-A09, € 77,-**

Stainless steel weighing plate
A 300 x 300 x 65 mm
B 380 x 380 x 96 mm, illustrated
C 480 x 480 x 96 mm

▲ **Height adjustable foot screws**

Free-standing display device with large LCD display
 digit height 23 mm

Rapid display
 Stabilization time approx. 2 sec



Weighing plate 300 x 300 mm



◀ **Roll stop barriers** only on platform sizes **B, C**

STANDARD



FACTORY OPTION



Numerical subtraction of tare weight using 2 arrow keys, for known container weight. Useful for checking fill-levels

Standard printer KERN YKB-01N, **€ 270,-**
Label printer KERN YKL-01, **€ 650,-**
 For all printers see page 94

Data interface RS 232 including interface cable, approx. 1.5 m, **KERN VB-A07, € 46,-**

Rechargeable battery pack, internal, operating time 17 h, charging time approx. 8 h, **KERN VB-A10, € 50,-**

Technical Data:

Display device WxDxH 200x160x150 mm
Cable length approx. Cable length for platform sizes **A** approx. 0,8 m **B, C** approx. 2 m

Permitted environmental temperature -10...+40 °C

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

Model	Weighing range Max kg	Read-out d g	Verific. value e g	Min. load Min g	Net weight approx. kg	Weighing plate	Price € excl. of VAT, ex works	Verification KERN	OPTION M III €	alternative Certificate KERN €	DKD €
KERN VB 6K1DM	3 6	1 2	1 2	20	5,5	A	350,-	950-128	! 50,-	963-128	80,-
VB 15K2DM	6 15	2 5	2 5	40	5,5	A	350,-	950-128	! 50,-	963-128	80,-
VB 30K5DSM	15 30	5 10	5 10	100	5,5	A	350,-	950-128	! 50,-	963-128	80,-
VB 30K5DM	15 30	5 10	5 10	100	11	B	450,-	950-128	! 50,-	963-128	80,-
VB 60K10DM	30 60	10 20	10 20	200	11	B	450,-	950-129	! 75,-	963-129	95,-
VB 60K10DLM	30 60	10 20	10 20	200	21	C	600,-	950-129	! 75,-	963-129	95,-
VB 150K20DM	60 150	20 50	20 50	400	11	B	450,-	950-129	! 75,-	963-129	95,-
VB 150K20DLM	60 150	20 50	20 50	400	21	C	600,-	950-129	! 75,-	963-129	95,-
VB 300K50DLM	150 300	50 100	50 100	1000	21	C	600,-	950-129	! 75,-	963-129	95,-

STANDARD

only for non-verified models

OPTION

robust metal housing

Dosage aid controlled through the display

Protective working cover over display device, standard. Can be reordered, KERN ITB-A03, € 16,-

Backlit LCD display digit height 16 mm

Automatic taring when placing a container, saves time



Delivery 8 days

Delivery 8 days

3 Years warranty

OPTION
 Verification

DKD
Certificate +3 days

Technical Data:

Display device
WxDxH 260x195x75 mm

Permitted environmental temperature -10 ... +40 °C

Display devices (terminals) individually available, see pages 92/93.

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

Sample order: KERN ITS 35K5 DIPM Max = 35 kg, d₁ = 5 g (from 0 – 15 kg), d₂ = 10 g (from 15 – 35 kg), D = Dual, IP = Protection class IP65,

Model	Model	Model	...	Weighing range Max kg	Read-out d g	Verific. value e g	Min. load Min g	Min. piece weight at piece count. g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate
ITB...	ITS...	ITT...	6K0.2IP	6	0,2	-	-	0,04	1	7,7	A
ITB...	ITS...	ITT...	15K0.5IP	15	0,5	-	-	0,1	1	7,7	A
ITB...	ITS...	ITT...	35K1IP	35	1	-	-	0,2	1,8	11,7	B
ITB...	ITS...	ITT...	60K2LIP	60	2	-	-	0,4	2	22	C
ITB...	ITS...	ITT...	60K2XLIP	60	2	-	-	0,4	3	25	D
ITB...	ITS...	ITT...	150K5IP	150	5	-	-	1	3	22	C
ITB...	ITS...	ITT...	150K5LIP	150	5	-	-	1	3	25	D
ITB...	ITS...	ITT...	300K10IP	300	10	-	-	2	3	25	D
ITB...	ITS...	ITT...	600K20IP**	600	20	-	-	4	3	45	E
Verifiable					d ₁ d ₂ = Dual-range scale (D=Dual) switches over automatically						
ITB...	ITS...	ITT...	6K1DIPM	3 6	1 2	1 2	20	0,04	1	7,7	A
ITB...	ITS...	ITT...	15K2DIPM	6 15	2 5	2 5	40	0,1	1	7,7	A
ITB...	ITS...	ITT...	35K5DIPM	15 35	5 10	5 10	100	0,2	2	11,7	B
ITB...	ITS...	ITT...	60K10DLIPM	30 60	10 20	10 20	200	0,4	2	22	C
ITB...	ITS...	ITT...	60K10DXLIPM	30 60	10 20	10 20	200	0,4	3	25	D
ITB...	ITS...	ITT...	150K20DIPM	60 150	20 50	20 50	400	1	3	22	C
ITB...	ITS...	ITT...	150K20DLIPM	60 150	20 50	20 50	400	1	3	25	D
ITB...	ITS...	ITT...	300K50DIPM	150 300	50 100	50 100	1000	2	3	25	D
ITB...	ITS...	ITT...	600K100DIPM**	300 600	100 200	100 200	2000	4	3	45	E