



BENCH SCALES


PROFESSIONAL MEASURING





KERN Pictograms


 **Internal adjusting**
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)


 **Adjusting program CAL**
For quick setting up of the balance's accuracy. External adjusting weight required


 **EasyTouch**
Suitable for the connection, data transmission and control through PC or tablet


 **Memory**
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.


 **Alibi memory**
Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.


 **KERN Universal Port (KUP)**
allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort


 **RS-232 Data interface**
To connect the balance to a printer, PC or network


 **RS-485 Data interface**
To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible


 **USB Data interface**
To connect the balance to a printer, PC or other peripherals

 **Bluetooth* Data interface**
To transfer data from the balance to a printer, PC or other peripherals

 **WIFI Data interface**
To transfer data from the balance to a printer, PC or other peripherals


 **Control outputs**
(optocoupler, digital I/O)
To connect relays, signal lamps, valves, etc.


 **Analogue interface**
to connect a suitable peripheral device for analogue processing of the measurements


 **Interface for second balance**
For direct connection of a second balance


 **Network interface**
For connecting the scale to an Ethernet network


 **KERN Communication Protocol (KCP)**
It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems


 **GLP/ISO log intern**
The balance displays weight, date and time, independent of a printer connection


 **GLP/ISO log Printer**
With weight, date and time. Only with KERN printers.


 **Piece counting**
Reference quantities selectable. Display can be switched from piece to weight


 **Recipe level A**
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out


 **Recipe level B**
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display


 **Totalising level A**
The weights of similar items can be added together and the total can be printed out


 **Percentage determination**
Determining the deviation in % from the target value (100 %)


 **Weighing units**
Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details

 **Weighing with tolerance range (Checkweighing)**
Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model


 **Hold function**
(Animal weighing program)
When the weighing conditions are unstable, a stable weight is calculated as an average value


 **Protection against dust and water splashes IPxx**
The type of protection is shown in the pictogram


 **Suspended weighing**
Load support with hook on the underside of the balance


 **Battery operation**
Ready for battery operation. The battery type is specified for each device


 **Rechargeable battery pack**
Rechargeable set


 **Universal plug-in power supply**
with universal input and optional input socket adapters for
A) EU, CH, GB
B) EU, CH, GB, US
C) EU, CH, GB, US, AUS


 **Plug-in power supply**
230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available


 **Integrated power supply unit**
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request


 **Weighing principle Strain gauges**
Electrical resistor on an elastic deforming body


 **Weighing principle Tuning fork**
A resonating body is electromagnetically excited, causing it to oscillate


 **Weighing principle Electromagnetic force compensation**
Coil inside a permanent magnet. For the most accurate weighings


 **Weighing principle Single cell technology**
Advanced version of the force compensation principle with the highest level of precision

 **Conformity Assessment**
The time required for conformity assessment is specified in the pictogram

 **DAkkS calibration possible (DKD)**
The time required for DAkkS calibration is shown in days in the pictogram

 **Factory calibration (ISO)**
The time required for Factory calibration is shown in days in the pictogram

 **Package shipment**
The time required for internal shipping preparations is shown in days in the pictogram

 **Pallet shipment**
The time required for internal shipping preparations is shown in days in the pictogram

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KERN Quick-Finder

How I quickly find the product I am looking for

Ahead of each product group allows you to base the search for a certain target group on weighing data you need such as readout, weighing capacity and main features for each model.

And it's as simple as that – find the product you want in 2 steps:

1. Go to the product group index on page 3
2. Pick the appropriate product group and find the product you want using the Quick-Finder



Plain, mobile, uncomplicated

Features

- **2** High mobility: Thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- Particularly large weighing plate
- Very fast display: steady weight values within 2 s
- Simple and convenient 2-key operation

Technical data

■ KERN ECE

- Large LCD display, digit height 21 mm
- Dimensions weighing surface, plastic, W×D 320×260 mm
- Net weight approx. 1,6 kg

KERN ECB, see larger picture

- Large backlit LCD display, digit height 21 mm
- Dimensions weighing surface, stainless steel, W×D 320×260 mm
- Net weight approx. 2,6 kg

KERN ECE/ECB

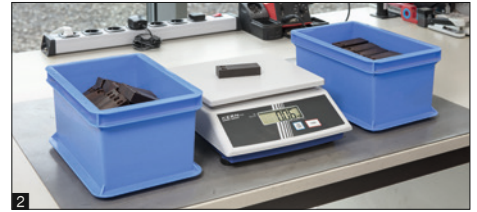
- Overall dimensions W×D×H 320×300×60 mm
- Battery operation, 6×1.5 V AA standard, operating time up to 100 h, AUTO-OFF function to preserve the battery
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN PCB-A01, **€ 90,-**
- Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, **€ 75,-**
- External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-03N, **€ 38,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD				OPTION		
CAL EXT	BATT	DMS	1 DAY	ACCU	MULTI	DAkkS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options	
						DAkkS Calibr.	Certificate KERN €
KERN							
ECE 10K-3N	10	5	5	± 20	120,-	963-128	118,-
ECE 20K-2N	20	10	10	± 40	120,-	963-128	118,-
ECE 50K-2N	50	20	20	± 80	120,-	963-128	118,-
ECB 10K-3N	10	5	5	± 20	140,-	963-128	118,-
ECB 20K-2N	20	10	10	± 40	140,-	963-128	118,-
ECB 50K-2N	50	20	20	± 80	140,-	963-128	118,-



6

Entry-level bench scale – mobile, practical, lightweight

Features

- Simple and convenient 2-key operation
- Very fast display: steady weight values within 3 s
- **1** Ideal as a compact letter and parcel scale, especially where space is limited
- **2** Ideal as a grading, commissioning or simple checkweighing scale in production or dispatch
- Protective working cover included with delivery

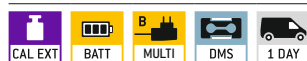
Technical data

- Large LCD display, digit height 25 mm
- Dimensions weighing surface, plastic, W×D 253×228 mm
- Overall dimensions W×D×H 270×323×110 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Net weight approx. 2,4 kg
- Permissible ambient temperature 5 °C/35 °C

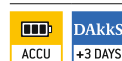
Accessories

- Protective working cover, scope of delivery 5 items, KERN FCB-A02S05, € 44,-
- **3** Stainless steel weighing plate, robust, removable, for easy cleaning, KERN FCE-A01, € 40,-
- Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, € 54,-

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options	
						DAkkS KERN	Certificate DAkkS €
FCE 3K1N	3	1	2	± 3	135,-	963-127	98,-
FCE 6K2N	6	2	2	± 4	135,-	963-128	118,-
FCE 15K5N	15	5	10	± 15	135,-	963-128	118,-
FCE 30K10N	30	10	10	± 30	135,-	963-128	118,-

1 * ONLY WHILE STOCKS LAST



The new FCB: Checkweighing and portioning scale with up to three interfaces

Features

- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Compact size, practical for small spaces
- Industry 4.0: Data and control commands can be exchanged through the KERN Universal Port using one interface, which can be connected to the housing, or through three parallel interfaces using the KUP Extension box. The following interfaces are available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- For further information on KUP and KCP see page 20/21
- High mobility: Thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)

- Weighing with tolerance range (checkweighing): Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- Summation of weight values
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 24 mm
- Dimensions weighing surface, stainless steel, WxD 252x225 mm
- Overall dimensions WxDxH 322x267x91 mm
- Optional battery operation, 4x1.5 V AA not included in scope of delivery, operating time up to 20 h
- Net weight approx. 3,8 kg
- Permissible ambient temperature 0 °C/40 °C

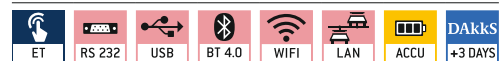
Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A14S05, € 44,-
- **1** Signal lamp for visual support of weighing with tolerance range. connection is only possible in combination with KUP-01 (RS 232 interface), KERN CFS-A03, € 310,-
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- External data interface USB, interface cable included, KERN KUP-03, € 75,-
- Interface adapter Ethernet, KERN KUP-04, € 115,-
- Interface adapter WiFi, KERN KUP-05, € 75,-
- Bluetooth interface adapter, KERN KUP-06, € 99,-
- **2** Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	WEIGHING CAPACITY	READABILITY	REPRODUCIBILITY	LINEARITY	SMALLEST PART WEIGHT (Normal)	RESOLUTION	PRICE excl. of VAT ex works	Options
KERN	[Max] kg	[d] g	g	g	g/piece	Points	€	DAKKS Calibr. Certificate
FCB 6K-5	6	0,05	0,05	± 0,15	0,5	120.000	330,-	963-128 DAKKS KERN € 118,-
FCB 8K0.1	8	0,1	0,1	± 0,3	1	80.000	275,-	963-128 DAKKS KERN € 118,-
FCB 12K-4	12	0,1	0,1	± 0,3	1	120.000	330,-	963-128 DAKKS KERN € 118,-
FCB 12K1	12	1	1	± 3	10	12.000	220,-	963-128 DAKKS KERN € 118,-
FCB 30K-4	30	0,2	0,2	± 0,6	2	150.000	330,-	963-128 DAKKS KERN € 118,-
FCB 30K1	30	1	1	± 3	10	30.000	260,-	963-128 DAKKS KERN € 118,-

NEW New model



6

High resolution bench scale with large weighing range and robust stainless steel weighing plate

Features

- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field
- Robust plastic die-cast housing: maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- Industry 4.0: The integrated KERN Universal Port (KUP) allows the connection of external KUP interface adapters such as RS-232, USB, Bluetooth, WiFi, Analogue, Ethernet etc. The outstanding advantage here is that the KUP interface adapters are simply plugged in, i.e. retrofitting interfaces is conveniently possible without opening the scale housing or complicated installation. The interface adapters enable convenient transmission of weighing data to networks, PCs, smartphones, tablets, laptops, printers etc. In addition, control commands and data inputs can also be sent to the scale via the connected devices.
Tip: with the KERN KUP-13 extension box, up to three KUP interface adapters can be operated in parallel on the scale
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- Protective working cover included with delivery



Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 340x240 mm
- Overall dimensions WxDxH, 350x390x120 mm
- Optional battery operation, 4x1.5 V AA not included in scope of delivery, operating time up to 20 h
- Net weight approx. 7 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN FKB-A02S05, **€ 44,-**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- External data interface USB, interface cable included, KERN KUP-03, **€ 75,-**
- External data interface RS-232, interface cable included, KERN KUP-01, **€ 60,-**
- Interface adapter Ethernet, KERN KUP-04, **€ 115,-**
- Interface adapter WiFi, KERN KUP-05, **€ 75,-**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions WxDxH 400x300x45 mm, KERN RFS-A02, **€ 75,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

1 Particularly practical: thanks to the large weighing ranges and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.

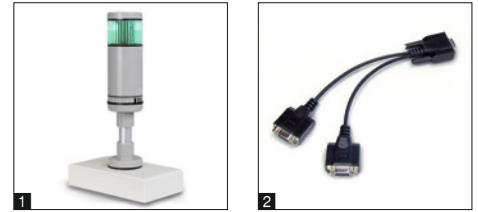
STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight (Normal) g/piece	Resolution Points	Price excl. of VAT ex works €	Options	
								DAkKS Calibr. DAKKS KERN	Certificate €
FKB 6K0.02	6	0,02	0,04	± 0,1	0,2	300.000	520,-	963-128	118,-
FKB 8K0.05	8	0,05	0,05	± 0,15	0,5	160.000	490,-	963-128	118,-
FKB 16K0.05	16	0,05	0,1	± 0,25	0,5	320.000	550,-	963-128	118,-
FKB 8K0.1	8	0,1	0,1	± 0,3	1	80.000	360,-	963-128	118,-
FKB 16K0.1	16	0,1	0,1	± 0,3	1	160.000	495,-	963-128	118,-
FKB 15K0.5	15	0,5	0,5	± 1,5	10	30.000	385,-	963-128	118,-
FKB 36K0.1	36	0,1	0,2	± 0,5	1	360.000	550,-	963-128	118,-
FKB 36K0.2	36	0,2	0,4	± 1	2	180.000	550,-	963-128	118,-
FKB 65K0.2	65	0,2	0,4	± 1	2	325.000	525,-	963-129	146,-
FKB 30K1	30	1	1	± 3	20	30.000	340,-	963-128	118,-
FKB 65K1	65	1	1	± 3	20	65.000	360,-	963-129	146,-



Application examples

- Small industrial scale for pharmacies
 - Hand mixtures of tea, coffee, chocolates
 - Portioning of dough, meat, fish, poultry, mixed salads in cafeterias etc.
 - Mobile weighing of freshly picked fruit on site
 - Checkweigher in supermarkets
 - High-precision industrial applications, piece counting or stock-taking
- Note: Official verification is mandatory for commercial trade

6

Checkweighing and portioning scale, verification optional

Features

- Compact size, practical for small spaces
- High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- Summation of weight values
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 24 mm
- Dimensions weighing surface, stainless steel, WxD 295x225 mm
- Overall dimensions WxDxH 315x350x125 mm
- Net weight approx. 3,0 kg
- Permissible ambient temperature 0 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05, **€ 44,-**
- Internal rechargeable battery pack, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 42,-**
- **1** Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, **€ 310,-**
- **2** Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 38,-**
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions WxDxH 400x300x45 mm, KERN RFS-A02, **€ 75,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD										OPTION		FACTORY
CAL EXT	RS 232	PCS	SUM	PERCENT	UNIT	TOL	MULTI	DMS	1 DAY	ACCU	DAkKS	+3 DAYS
												GAB-DNM

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Price excl. of VAT ex works €	Options			
							Verification MDD KERN	€	DAkKS KERN	Certificate €
GAB 6K0.05N*	6	0,05	-	-	0,5	395,-	-	-	963-128	118,-
GAB 12K0.1N*	12	0,1	-	-	1	395,-	-	-	963-128	118,-
GAB 30K0.2N*	30	0,2	-	-	2	395,-	-	-	963-128	118,-
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].										
GAB 6K1DNM*	3 6	1 2	1 2	20	2	310,-	965-228	84,-	963-128	118,-
GAB 15K2DNM*	6 15	2 5	2 5	40	5	310,-	965-228	84,-	963-128	118,-
GAB 30K5DNM*	15 30	5 10	5 10	100	10	310,-	965-228	84,-	963-128	118,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

! * ONLY WHILE STOCKS LAST

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- Operating Instructions
- Descriptive Image and Video Material
- Useful KERN Services
- Technical Glossary
- KERN Dealer Portal
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