

## BENCH SCALES











































16,237 kg



PROFESSIONAL MEASURING

**2016**

# KERN Pictograms

 <b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).	 <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight.	 <b>Suspended weighing:</b> Load support with hook on the underside of the balance.
 <b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required.	 <b>Recipe level A:</b> Separate memory for the weight of the tare container and the recipe ingredients (net total).	 <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device.
 <b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 <b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 <b>Rechargeable battery pack:</b> Rechargeable set.
 <b>Alibi memory:</b> Electronic archiving of weighing results, complying with the 2009/23/EC standard. For details see page 214	 <b>Recipe level C:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode.	 <b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS
 <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network.		 <b>Mains adapter:</b> 230V/50Hz in standard version for EU. On request GB, USA or AUS version available.
 <b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 <b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out.	 <b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.
 <b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals.	 <b>Totalising level C:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.	 <b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body.
 <b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals.		 <b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate.
 <b>WLAN data interface:</b> To transfer data from the balance to a printer, PC or other peripherals.	 <b>Percentage determination:</b> Determining the deviation in % from the target value (100 %).	 <b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings.
 <b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	 <b>Weighing units:</b> Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details.	 <b>Weighing principle: Single cell technology</b> Advanced version of the force compensation principle with the highest level of precision.
 <b>Interface for second balance:</b> For direct connection of a second balance.	 <b>Weighing with tolerance range:</b> Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning	 <b>Verification possible:</b> The time required for verification is specified in the pictogram.
 <b>Network interface:</b> For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter. See page 180	 <b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.	 <b>DAKkS calibration possible (DKD):</b> The time required for DAKkS calibration is shown in days in the pictogram.
 <b>Wireless data transfer:</b> between the weighing unit and the evaluation unit using an integrated radio module.	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram. For details see the glossary. See page 72.	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
 <b>GLP/ISO log:</b> The balance displays the weight, date and time, regardless of a printer connection.	 <b>ATEX explosion protection:</b> Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.	 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
 <b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers, see "Accessories", see page 177.	 <b>Stainless steel:</b> The balance is protected against corrosion.	 <b>Warranty:</b> The warranty period is shown in the pictogram.

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# KERN – measuring technology and testing services from a single source



## Balances & Test service catalogue

Provides a complete overview of the KERN line of balances, test weights, and services, services such as verification, calibration, etc.



## Medical scales catalogue

Complete line of medical scales, from infant scales to patient scales, chair scales and adiposity scales, as well as hand grip dynamometers, chemist's balances, and veterinary scales.



## Microscopes & refractometers catalogue

Extensive range in the area of optical instruments, such as, for example, biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers.



## SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness and calibration service.



## KERN DAkKS calibration service brochure

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



## KERN flyer Special offers

Compact overview of our bestselling products – just the balances/measuring instruments/microscopes your customers need! Can be customised to suit your requirements.



## The gnome guide

Travel report from KERN, the famous scientific gnome, who travelled all over the world, in order to illustrate the physical law of gravitational force. Ideal for use in school education – please request, it's free of charge.



## 170 years of KERN

Interesting and readable overview of the history of the origins of Southern German balance manufacturing, as well as the company history, which stretches right back to 1770 – please request, it's free of charge.

## Your advantages

1

### 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).

2

### Price performance ratio

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

3

### Direct dispatch

of ordered goods to your customer is available, with personalised delivery note if desired (please ask), invoice will be issued to you (third party business).

4

### 3 years warranty

Items under € 400,- : 2 years

5

### No stock-keeping necessary.

KERN does the warehousing for you.

6

### Sale or return

within 14 days of purchase.

**Compact industrial weighing technology**

Thanks to their compact dimensions, low weight, robust internal mechanism and the fact that they 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 and 65 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, PRE-TARE – subtraction of a known container weight, or → **interfaces** to PC and printer, all these support the user in their daily work

→ **Dual range** scales cover a particularly wide range of applications. With these scales, the total weighing range is divided into 2 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.

All KERN bench scales have an adjustment program (CAL) to adjust the accuracy. In this way, the high level of accuracy is guaranteed at all times, even during harsh everyday use. Find the right test weights for you, see page 188.

**Touchscreen balances**

The newest development for an even greater level of user-friendliness is the intuitive touchscreen operation, which is being integrated into new KERN models, see page 34/35 (PKT), 41–43 (PET), 50/51 (AET), 70/71 (FKT), 170/171 (FKTF), 96 (FKA), 97 (FKC), 118/119 (IKT), 120/121 (ILT)

→ See the glossary on page 214 – 216

**Your product specialist's recommendation:**

**With type approval – which makes it suitable for a wide variety of uses, e.g. retail, catering trade, supermarkets, cafeterias, etc.**



**Designed for mobile use**



**Rapid and steady weighing results**



**Edeltraud Semma-Hauser**  
Product specialist Bench scales

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Fax +49 [0] 7433 9933-29140  
semma-hauser@kern-sohn.com



**KERN GAB-N**











from €

**230,-**

► page 67



# Quick-Finder Bench scales

Read-out	Weighing range	Model	Price excl. of VAT ex works €	Page	 DAYS ready for shipping									
[d]	[Max]	KERN				For an explanation on the pictos, see the front flap								
0,05 g	6 kg	GAB 6K0.05N	300,-	67	1		●		●	●				○
0,02 g	6 kg	FKB 6K0.02	510,-	69	1		●		●	●			○	○
0,05 g	6 kg	GAB 6K-5P	600,-	68	1		●		●	●				○
0,02 g	6 kg	FKT 6K0.02L	890,-	70	1		●	●	●	●			○	○
0,05 g	8 kg	FKB 8K0.05	460,-	69	1		●		●	●			○	○
0,05 g	16 kg	FKB 16K0.05	560,-	69	1		●		●	●			○	○
0,05 g	16 kg	FKT 16K0.05L	890,-	70	1		●	●	●	●			○	○
0,1 g	3 kg	FCB 3K0.1	220,-	65	1		●		●	●			○	○
0,1 g	6 kg	FKT 6K0.1	790,-	70	1		●	●	●	●				○
0,1 g	8 kg	FCB 8K0.1	240,-	65	1		●		●	●			○	○
0,1 g	8 kg	FKB 8K0.1A	300,-	66	1		●		●	●			○	○
0,1 g	8 kg	FKB 8K0.1M	540,-	69	1	○	●		●	●			○	
0,1 g	12 kg	GAB 12K0.1N	300,-	67	1		●		●	●				○
0,1 g	12 kg	GAB 10K-4P	590,-	68	1		●		●	●				○
0,1 g	16 kg	FKB 16K0.1	460,-	69	1		●		●	●			○	○
0,1 g	36 kg	FKB 36K0.1	520,-	69	1		●		●	●			○	○
0,1 g	36 kg	FKT 36K0.1L	890,-	70	1		●	●	●	●			○	○
0,2 g	12 kg	FKT 12K0.2	790,-	70	1		●	●	●	●				○
0,2 g	30 kg	GAB 30K0.2N	300,-	67	1		●		●	●				○
0,2 g	30 kg	GAB 30K-4P	590,-	68	1		●		●	●				○
0,2 g	36 kg	FKB 36K0.2	480,-	69	1		●		●	●			○	○
0,2 g	65 kg	FKB 65K0.2	520,-	69	1		●		●	●			○	○
0,2 g	65 kg	FKT 65K0.2L	890,-	70	1		●	●	●	●			○	○
0,5 g	6 kg	FCB 6K0.5	195,-	65	1		●		●	●			○	○
0,5 g	15 kg	FKB 15K0.5A	290,-	66	1		●		●	●			○	○
0,5 g	30 kg	FKT 30K0.5L	790,-	70	1		●	●	●	●			○	○
0,5 g	65 kg	FKB 65K0.5	480,-	69	1		●		●	●			○	○
1 g	3 kg	FCE 3K1N	110,-	64	1		●						○	○
1 g	6 kg	FKT 6K1LM	890,-	70	1	○	●	●	●	●			○	
1 g	12 kg	FCB 12K1	185,-	65	1		●		●	●			○	○
1 g	15 kg	FKB 15K1A	260,-	66	1		●		●	●			○	○
1 g	30 kg	FCB 30K1	220,-	65	1		●		●	●			○	○
1 g	30 kg	FKB 30K1A	290,-	66	1		●		●	●			○	○
1 g	60 kg	FKT 60K1L	790,-	70	1		●	●	●	●			○	○
1 g	65 kg	FKB 65K1A	300,-	66	1		●		●	●			○	○
1 g	65 kg	FKB 65K1M	550,-	69	1	○	●		●	●			○	
1   2 g	3   6 kg	GAB 6K1DNM	230,-	67	1	○	●		●	●				○
1   2 g	3   6 kg	GAB 6K-3PM	510,-	68	1	○	●		●	●				○
2 g	6 kg	FCE 6K2N	110,-	64	1		●						○	○
2 g	12 kg	FKT 12K2LM	890,-	70	1	○	●	●	●	●			○	
2 g	24 kg	FCB 24K2	185,-	65	1		●		●	●			○	○
2   5 g	6   15 kg	GAB 15K2DNM	230,-	67	1	○	●		●	●				○
2   5 g	6   15 kg	GAB 10K-3PM	510,-	68	1	○	●		●	●				○
5 g	10 kg	ECE 10K-3N	99,-	62	1		●						○	○
5 g	10 kg	ECB 10K-3N	120,-	62	1		●						○	○
5 g	15 kg	FCE 15K5N	110,-	64	1		●						○	○
5 g	30 kg	FKT 30K5LM	890,-	70	1	○	●	●	●	●			○	
5   10 g	15   30 kg	GAB 30K5DNM	230,-	67	1	○	●		●	●				○
5   10 g	15   30 kg	GAB 30K-3PM	510,-	68	1	○	●		●	●				○
10 g	20 kg	ECE 20K-2N	99,-	62	1		●						○	○
10 g	20 kg	ECB 20K-2N	120,-	62	1		●						○	○
10 g	30 kg	FCE 30K10N	110,-	64	1		●						○	○
10 g	60 kg	FKT 60K10LM	890,-	70	1	○	●	●	●	●			○	
20 g	50 kg	ECE 50K-2N	99,-	62	1		●						○	○
20 g	50 kg	ECB 50K-2N	120,-	62	1		●						○	○

■ = News 2016

● = Standard

○ = Option

NEW



Plain, mobile, uncomplicated

#### Features

- **High mobility:** Battery operation, compact, flat construction, recessed grips on the underside and low weight make this balance ideal for use in several locations
- **Particularly large weighing plate**
- **Very fast display:** steady weight values within 2 sec
- **Simple and convenient 2-key operation**

#### Technical data

- Large backlit LCD display, digit height 21 mm
- Weighing plate dimensions (1 ECE: plastic, ECB: stainless steel) WxD 318x258 mm
- Overall dimensions WxDxH 320x300x60 mm
- Optional battery operation, 6 x 1.5 V AA not included, operating time up to 100 h. AUTO-OFF function to preserve the batteries
- Permissible ambient temperature 5 °C / 35 °C

#### Accessories

- **External universal mains adapter**, with universal input and optional input socket adapters for CH, EU, GB, USA, not included, can be retrofitted, KERN YKA-03, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 30 h, charging time approx. 10 h. AUTO-OFF function to preserve the battery, can be retrofitted, KERN PCB-A01, **€ 70,-**
- **Rechargeable battery pack external**, operating time up to 270 h, charging time approx. 10 h, can be retrofitted, KERN KS-A01, **€ 180,-**
- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 182, KERN RFS-A02, **€ 55,-**
- **Suitable test weights**, also with calibration certificate see page 188

#### STANDARD



#### OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
							DKD KERN	€
<b>KERN</b>								
ECE 10K-3N	10	5	5	± 20	1,5	<b>99,-</b>	963-128	88,-
ECE 20K-2N	20	10	10	± 40	1,5	<b>99,-</b>	963-128	88,-
ECE 50K-2N	50	20	20	± 80	1,5	<b>99,-</b>	963-128	88,-
<b>ECB</b>								
ECB 10K-3N	10	5	5	± 20	2,5	<b>120,-</b>	963-128	88,-
ECB 20K-2N	20	10	10	± 40	2,5	<b>120,-</b>	963-128	88,-
ECB 50K-2N	50	20	20	± 80	2,5	<b>120,-</b>	963-128	88,-



“Here at KERN we know the high demands you make on your bench scales in the various fields of trade, commerce and production. We have therefore developed multi-talented products which will help to make your tasks easier to handle each day and meet your requirements for accuracy and quality.”

*Martin Goltz and Michael Stark,  
KERN Product management*



## Entry-level bench scale – mobile, practical, lightweight

### Features

- **Simple and convenient 2-key operation**
- **Very fast display:** steady weight values within 2 sec
- **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

### Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions, plastic, WxD 252x228 mm
- Overall dimensions WxDxH 270x345x106 mm
- Optional battery operation, 9 V block not included, operating time up to 12 h. AUTO-OFF function to preserve the battery.
- Net weight approx. 2,5 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN FCB-A02S05, **€ 35,-**
- **B** **Stainless steel weighing plate**, robust, removable, for easy cleaning, KERN FCE-A01, **€ 35,-**
- **Rechargeable battery pack internal**, AUTO-OFF function to preserve the battery, can be switched off, operating time up to 20 h, charging time approx. 10 h, can be retrofitted, KERN FCB-A01, **€ 50,-**
- **Suitable test weights**, also with calibration certificate see page 188

#### STANDARD



#### OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DAkKS Calibr. Certificate	
						DKD KERN	€
KERN							
FCE 3K1N	3	1	2	± 3	110,-	963-127	72,-
FCE 6K2N	6	2	2	± 4	110,-	963-128	88,-
FCE 15K5N	15	5	10	± 15	110,-	963-128	88,-
FCE 30K10N	30	10	10	± 30	110,-	963-128	88,-



Bench scale KERN FCB



05

Bench scale with second display on the backside of the scale

**Features**

- **Second display** on the rear of the balance
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **High mobility:** Battery operation/ rechargeable battery pack (optional), compact construction and low weight make this balance ideal for use in several locations (production, warehouse, dispatch department etc.)

**Technical data**

- Backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxD 252x228 mm
- Overall dimensions WxDxH 270x345x106 mm
- Optional battery operation, battery 9 V block not standard, operating time up to 12 h
- Net weight approx. 3 kg
- Permissible ambient temperature 5 °C / 35 °C

**Accessories**

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN FCB-A02S05, **€ 30,-**
- **Rechargeable battery pack internal**, operating time up to 10 h without backlight, charging time approx. 10 h, can be retrofitted, KERN FCB-A01, **€ 50,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** see page 177 ff.

STANDARD

CAL EXT

RS 232

PCS

RECIPE

PERCENT

UNIT

MOVE

BATT

MULTI

DMS

1 DAY

2 YEARS WARRANTY

OPTION

ACCU

DAkKS

+3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Option DAkKS Calibr. Certificate	
							DKD KERN	€
KERN								
FCB 3K0.1	3	0,1	0,1	± 0,3	0,2	220,-	963-127	72,-
FCB 8K0.1	8	0,1	0,1	± 0,3	0,2	240,-	963-128	88,-
FCB 6K0.5	6	0,5	0,5	± 1,5	1	195,-	963-128	88,-
FCB 12K1	12	1	1	± 3	2	185,-	963-128	88,-
FCB 30K1	30	1	1	± 3	2	220,-	963-128	88,-
FCB 24K2	24	2	2	± 6	4	185,-	963-128	88,-



## Bench scale up to 65 kg with large weighing plate

### Features

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **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 etc.
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of wire g/m, surface weight g/m<sup>2</sup>, or else

### Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxD 340x240 mm
- Overall dimensions WxDxH 350x390x120 mm
- Optional battery operation, 9 V block not included, operating time up to 12 h
- Net weight approx. 6,5 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **Protective working cover** over keyboard and housing standard. Can be re-ordered, scope of delivery: 5 items, KERN FKB-A02S05, € 30,-
- **Rechargeable battery pack internal**, operating time up to 8 h, charging time approx. 10 h can be retrofitted, KERN PCB-A01, € 70,-
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

#### STANDARD



#### OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
							DKD KERN	€
KERN								
FKB 8K0.1A	8	0,1	0,1	± 0,3	0,2	300,-	963-128	88,-
FKB 15K0.5A	15	0,5	0,5	± 1,5	1	290,-	963-128	88,-
FKB 15K1A	15	1	1	± 2	2	260,-	963-128	88,-
FKB 30K1A	30	1	1	± 3	2	290,-	963-128	88,-
FKB 65K1A	65	1	1	± 3	2	300,-	963-129	105,-

Bench scale KERN GAB-N



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
- High-precision industrial applications

**Note:** Official verification duty for commercial trade

Checkweighing and portioning scale, also with EC type approval [M]

Features

- **Compact size**, practical for small spaces
- **High mobility:** thanks to battery operation (optional)
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading
- **Totalising** of weights

Technical data

- Large backlit LCD display, digit height 24 mm
- Weighing plate dimensions, stainless steel, WxD 294x225 mm
- Overall dimensions WxDxH 320x330x125 mm
- Net weight approx. 3 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05, € 40,-
- **Signal lamp** for visual support of weighing with tolerance range, for details see page 181, KERN CFS-A03, € 250,-

- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, can be retrofitted, KERN GAB-A04, € 40,-
- **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, € 35,-
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
							KERN	€	KERN	€
KERN										
GAB 6K0.05N	6	0,05	-	-	0,05	300,-	-	-	963-128	88,-
GAB 12K0.1N	12	0,1	-	-	0,1	300,-	-	-	963-128	88,-
GAB 30K0.2N	30	0,2	-	-	0,2	300,-	-	-	963-128	88,-
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.										
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].										
GAB 6K1DNM	3   6	1   2	1   2	20	0,2	230,-	965-228	55,-	963-128	88,-
GAB 15K2DNM	6   15	2   5	2   5	40	0,5	230,-	965-228	55,-	963-128	88,-
GAB 30K5DNM	15   30	5   10	5   10	100	1	230,-	965-228	55,-	963-128	88,-



## Application examples:

- Small industrial scale for pharmacies
- Hand mixtures of tea, coffee, chocolates
- Portioning of dough, meat, fish, poultry, mixed salads in cafeterias etc.
- pick your own fruit and vegetable sales
- High-precision industrial applications, piece counting or stock-taking

**Note:** Official verification duty for commercial trade

## Checkweighing and portioning scale with integrated printer and EC type approval [M]

### Features

- Precise bench scale for applications (which require verification), where the weight values must be documented and archived through print outs or data transfer, such as, e.g. quantities obtained in stocktaking
- The determined weight, quantity, totals, percentage etc. can be printed out with clearly date and time
- **Internal printer:** Robust high-speed thermal printer. Fast and easy change of paper rolls thanks to innovative paper compartment construction
- **High mobility:** thanks to battery operation, compact construction and low weight,

it is suitable for use in several locations (production, warehouse, dispatch department etc.)

- **Compact size,** practical for small spaces
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading

### Technical data

- Large backlit LCD display, digit height 20 mm
- Weighing plate dimensions, stainless steel, WxD 365x235 mm
- Overall dimensions WxDxH 371x366x131 mm
- Net weight approx. 4,4 kg
- Permissible ambient temperature -10 °C / 40 °C

### Accessories

- **Thermal receipt rolls** (10 pieces), width 56 mm, Ø 51 mm, KERN RFS-A10, € 40,-
- **Signal lamp,** for details see page 181, KERN CFS-A03, € 250,-
- **Rechargeable battery pack internal,** standard, operating time up to 150 hours without backlight and use of printer, charging time approx. 12 h, can be retrofitted, KERN HFM-A01, € 50,-
- **Suitable printers** and further, extensive accessories from page 177 ff.

#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
							M M KERN	€	DKD KERN	€
KERN										
GAB 6K-5P	6	0,05	-	-	0,05	600,-	-	-	963-128	88,-
GAB 10K-4P	12	0,1	-	-	0,1	590,-	-	-	963-128	88,-
GAB 30K-4P	30	0,2	-	-	0,2	590,-	-	-	963-128	88,-
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.										
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].										
GAB 6K-3PM	3 6	1 2	1 2	20	20	510,-	965-228	55,-	963-128	88,-
GAB 10K-3PM	6 15	2 5	2 5	40	40	510,-	965-228	55,-	963-128	88,-
GAB 30K-3PM	15 30	5 10	5 10	100	100	510,-	965-228	55,-	963-128	88,-

ONLY WHILE STOCKS LAST





Large, high resolution bench scale, also with EC type approval [M]

Features

- Thanks to the high resolution of up to 360,000 points it is ideal for high-precision weighing in the industrial field. It is also available in a version with EC type approval class II for applications which require verification (FKB-M)
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- only FKB: **Freely programmable weighing unit**, e.g. display direct in special units such as length of wire g/m, surface weight g/m<sup>2</sup>, or else
- **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, e.g. gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.

Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxD 340x240 mm
- Dimensions housing WxDxH 350x390x120 mm
- Optional battery operation, batteries 6 x 1.5 V Size C not standard, operating time up to 40 h
- Net weight approx. 6,5 kg
- Permissible ambient temperature  
KERN FKB: 10 °C / 40 °C  
KERN FKB-M: 10 °C / 30 °C



Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN FKB-A02S05, **€ 30,-**
- only FKB: **Rechargeable battery pack external**, operating time up to 25 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Tare pan made of stainless steel**, ideal for weighing loose small parts, WxDxH 370x240x20 mm, for details see page 182, KERN RFS-A02, **€ 55,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL EXT

RS 232

PCS

RECIPE

PERCENT

UNIT

MOVE

UNDER

BATT

MULTI

DMS

1 DAY

3 YEARS WARRANTY

OPTION

ACCUR

DAKKS

FACTORY

M

+3 DAYS

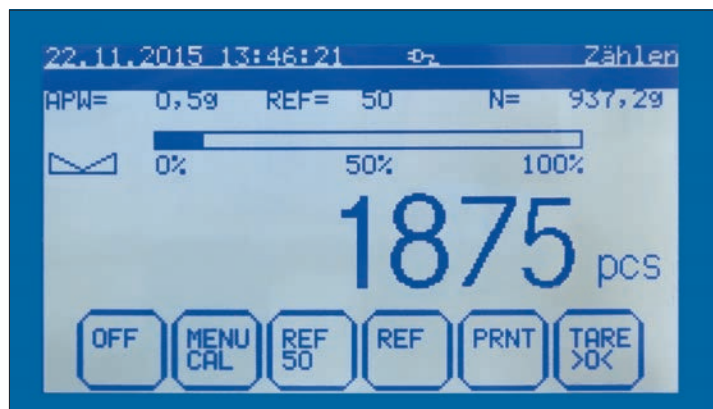
Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
								KERN	€	DKD KERN	€
KERN											
FKB 6K0.02	6	0,02	-	0,04	± 0,1	0,02	510,-	-	-	963-128	88,-
FKB 8K0.05	8	0,05	-	0,05	± 0,15	0,05	460,-	-	-	963-128	88,-
FKB 16K0.05	16	0,05	-	0,1	± 0,25	0,05	560,-	-	-	963-128	88,-
FKB 16K0.1	16	0,1	-	0,1	± 0,3	0,1	460,-	-	-	963-128	88,-
FKB 36K0.1	36	0,1	-	0,2	± 0,5	0,1	520,-	-	-	963-128	88,-
FKB 36K0.2	36	0,2	-	0,2	± 0,6	0,2	480,-	-	-	963-128	88,-
FKB 65K0.2	65	0,2	-	0,4	± 1	0,2	520,-	-	-	963-129	105,-
FKB 65K0.5	65	0,5	-	0,5	± 1,5	0,5	480,-	-	-	963-129	105,-
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.											
FKB 8K0.1M	8	0,1	1	0,1	± 0,3	0,1	540,-	965-217	77,-	963-128	88,-
FKB 65K1M	65	1	10	1	± 2	1	550,-	965-218	110,-	963-129	105,-



## Alibi memory

- Ring memory for up to 49,152 measuring results (744 measuring results per day!)
- Saved measuring results cannot be changed or cleared. If the maximum memory capacity is reached, then the oldest value will be overwritten
- In addition to the measuring result, the date, time, tare value, a sequential number and the serial number of the balance are also saved.
- Saved measuring results can be searched and recalled easily
- The alibi memory can also be used for applications which do not require verification
- Complies with WELMEC 2.5

Touchscreen industrial scale with enormous range of functions, also with EC type approval [M]

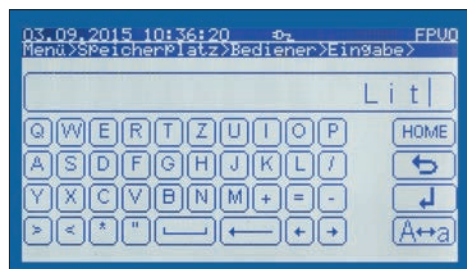


Display at full size, operating mode counting

**Innovative touchscreen:** Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading

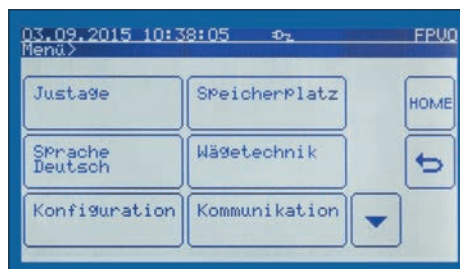
### Advantages:

- The menu and processes are self-explanatory
- No more errors or lost time through keys which have several functions assigned to them or unclear markings
- Large keys, which can also be operated when wearing gloves
- More efficient, faster and safer working



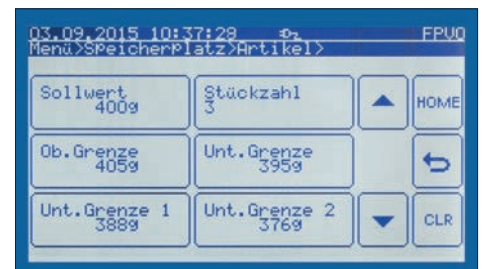
### Easy entering of text and values

e.g. item descriptions, user name, weights of tare containers, etc. using the large keypad



### 80 memories for each mode (FKT-M: 40)

e.g. for checkweighing, PRE-TARE, reference weight, target weight for dispensing etc.



### Weighing with tolerance range

**(checkweighing):** a visual and audible signal helps with portioning, dispensing or grading

# Bench scale KERN FKT

## Features

- **Convenient recipe weighing:** 99 recipes each with 10 components each can be stored in plain text. If one recipe ingredient is overweight, then the practical recipe adjustment function for when dosages are exceeded automatically calculates the new target weights of the other ingredients. The actual and target values and the proportionate percentage can then be printed. The recipes can be generated easily in an Excel list at the PC and transferred to the balance using the RS-232 interface. Alternatively, the recipes can also be entered directly using the keypad
- **Multiplier function:** recipes with the ingredient weights recorded as percentage values can easily be replicated by entering a new target weight. The ideal solution for the preparation of larger containers, bulk packs etc.
- **Rapid function** for shortened stabilisation time with reduced readout
- **16 print forms** which can store up to 20 different information, such as, e.g., date, time, operator, item, net, tare, gross, PCs, target weight, PRE-TARE etc. The print forms can be generated easily in an Excel list in the PC and transferred to the balance using the RS-232 interface
- **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves etc. (35 V / 80 mA)
- **Hook for underfloor weighing** of hanging loads standard for models with weighing plate size **B**

## Technical data

- Backlit LCD graphic display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Weighing plate dimensions (stainless steel) WxD
  - A** 253x228 mm
  - B** 340x240 mm, see enlarged picture
- Overall dimensions WxDxH
  - A** 270x345x106 mm
  - B** 350x390x120 mm
- Optional battery operation, only for models with weighing plate size **B**, 6 x 1.5 V Size C not included, operating time up to 20 h
- Permissible ambient temperature 10 °C / 40 °C

## Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, for models with weighing plate size
  - A** KERN FCB-A02S05, € 30,-
  - B** KERN FKB-A02S05, € 30,-
- **Rechargeable battery pack external**, operating time up to 10 h, charging time approx. 10 h, not for FKT-M, KERN KS-A01, € 180,-
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04, € 250,-
- **RS-232/Ethernet adapter**, for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, € 390,-
- **RS-232/USB adapter** to connect peripheral devices with USB connection, for details, see page 181, KERN AFH 12, € 85,-
- **Suitable printers** and further, extensive accessories from page 177 ff.

## Modes

- ① Weighing
- ② Counting
- ③ Dispensing
- ④ Recipe weighing
- ⑤ Checkweighing
- ⑥ Totalising with daily total
- ⑦ Percentage determination
- ⑧ Animal weighing
- ⑨ Surface weight
- ⑩ Density determination, only with **B**, not for **M**
- ⑪ Rapid function, not for **M**

## Functions

- Capacity display, with ① - ②, ⑤ - ⑦, ⑨ - ⑪
- Dispensing aid (subtractive/additive), with ③, ④
- Net/gross display, permanent, with ①, ③ - ⑤, ⑧ - ⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ① - ⑦, ⑪
- Input of item or batch description, operator etc., with ① - ⑦, ⑪
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m<sup>2</sup>, or similar, with ⑨
- Date/time, with ① - ⑪
- Statistical function, with ①
- GLP printout, with ① - ⑪
- Individual formatting of up to 16 printer forms, recipes, operating mode master data in MS Excel, import via RS-232, for examples, see the internet, with ① - ⑪

STANDARD



OPTION

FACTORY

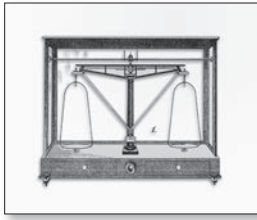


Model	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Minimum load [Min] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Options			
										Verification		DAKKS Calibr. Certificate	
										M KERN	€	DKD KERN	€
<b>KERN</b>													
<b>FKT 6K0.1</b>	6	0,1	-	-	0,1	± 0,2	0,1	<b>A</b>	<b>790,-</b>	-	-	963-128	88,-
<b>FKT 12K0.2</b>	12	0,2	-	-	0,2	± 0,4	0,2	<b>A</b>	<b>790,-</b>	-	-	963-128	88,-
<b>FKT 30K0.5L</b>	30	0,5	-	-	0,5	± 1	0,5	<b>B</b>	<b>790,-</b>	-	-	963-128	88,-
<b>FKT 60K1L</b>	60	1	-	-	1	± 2	1	<b>B</b>	<b>790,-</b>	-	-	963-129	105,-
High-resolution display													
<b>FKT 6K0.02L</b>	6	0,02	-	-	0,04	± 0,1	0,02	<b>B</b>	<b>890,-</b>	-	-	963-128	88,-
<b>FKT 16K0.05L</b>	16	0,05	-	-	0,1	± 0,25	0,05	<b>B</b>	<b>890,-</b>	-	-	963-128	88,-
<b>FKT 36K0.1L</b>	36	0,1	-	-	0,2	± 0,5	0,1	<b>B</b>	<b>890,-</b>	-	-	963-128	88,-
<b>FKT 65K0.2L</b>	65	0,2	-	-	0,4	± 1	0,2	<b>B</b>	<b>890,-</b>	-	-	963-129	105,-
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.													
<b>FKT 6K1LM</b>	6	1	1	20	0,5	± 0,5	1	<b>B</b>	<b>890,-</b>	965-228	55,-	963-128	88,-
<b>FKT 12K2LM</b>	12	2	2	40	1	± 1	1	<b>B</b>	<b>890,-</b>	965-228	55,-	963-128	88,-
<b>FKT 30K5LM</b>	30	5	5	100	2,5	± 2,5	5	<b>B</b>	<b>890,-</b>	965-228	55,-	963-128	88,-
<b>FKT 60K10LM</b>	60	10	10	200	5	± 5	10	<b>B</b>	<b>890,-</b>	965-229	93,-	963-129	105,-



# Tradition and innovation for more than 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.



► 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



► 1980

The electronic balance ousts mechanical devices



► 1994

Accredited DKD laboratory (ISO 17025)



► 2000

New premises in Balingen



► 2002

Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards



► 2007

Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)



► 2008

Authorisation for initial verification by the manufacturer (2009/23/EC)



► 2009

Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)



► 2012

Verification point for non-automatic balances and test weights.

New customer portal [www.kern-sohn.com](http://www.kern-sohn.com) goes live



► 2014

Expansion of the product range to include optical instruments (microscopes and refractometers)



► 2015

Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse



## Our Tip

Come to see the Museum of scale and weight ...



How a scale learned to weigh! Come and experience KERN history in the Zollernschloss at Balingen ...

[www.balingen.de](http://www.balingen.de)  
→ "Kultur"



## KERN – Tradition and Innovation for over 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.

### fast

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

### reliable

- 3 years warranty for balances over € 400,-
- Precision in weighing technology for more than 170 years

### competent

- DAkkS accreditation DIN EN ISO/IEC 17025
- Certified QM system DIN EN ISO 9001:2008
- Authorisation for initial verification by the manufacturer 2009/23/EC
- Medical certifications DIN EN ISO 13485 and 93/42/EEC

### versatile

- One-stop shopping: from pocket balances through to floor scales – everything from one supplier
- Find the product you want at lightning speed with the “Balance Quick-Finder” at [www.kern-sohn.com](http://www.kern-sohn.com)



#### Order hotline

+49 [0] 7433 9933-0



#### Online-Shop

[www.kern-sohn.com](http://www.kern-sohn.com)



#### Our team of consultants will assist you

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



#### Service hotline

+49 [0] 7433 9933-199



#### E-mail order

[info@kern-sohn.com](mailto:info@kern-sohn.com)



#### Calibration hotline

+49 [0] 7433 9933-196



#### Fax Order

+49 [0] 7433 9933-146



#### [www.kern-sohn.com](http://www.kern-sohn.com)

For product specification sheets, user manuals, useful information, technical glossary pictures and much more as well as a smart search engine for test weights and balances

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