

Supplied by  
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## BENCH SCALES



PROFESSIONAL MEASURING

# 2015

# KERN Pictograms



## Internal adjusting:

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



## Recipe level A:

Separate memory for the weight of the tare container and the recipe ingredients (net total).



## Suspended weighing:

Load support with hook on the underside of the balance.



## Adjusting program CAL:

For quick setting up of the balance's accuracy. External adjusting weight required.



## Recipe level B:

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



## Battery operation:

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



## Memory:

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



## Recipe level C:

Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation functions.



## Rechargeable battery pack:

Rechargeable set.



## Data interface RS-232:

To connect the balance to a printer, PC or network.



## Mains adapter:

230V/50Hz in standard version for EU. On request GB, AUS or USA version available.



## RS-485 data interface:

To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.



## Totalising level A:

The weights of similar items can be added together and the total can be printed out.



## Power supply:

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



## USB data interface:

To connect the balance to a printer, PC or other peripherals.



## Totalising level C:

Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation.



## Strain gauges:

Electrical resistor on an elastic deforming body.



## Bluetooth data interface:

To transfer data from the balance to a printer, PC or other peripherals.



## Tuning fork principle:

A resonating body is electromagnetically excited, causing it to oscillate.



## WLAN data interface:

To transfer data from the balance to a printer, PC or other peripherals.



## Percentage determination:

Determining the deviation in % from the target value (100 %).



## Electromagnetic force compensation:

Coil inside a permanent magnet. For the most accurate weighings.



## Control outputs

### (optocoupler, digital I/O):

To connect relays, signal lamps, valves, etc.



## Weighing units:

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.



## Single cell technology:

Advanced version of the force compensation principle with the highest level of precision.



## Interface for second balance:

For direct connection of a second balance.



## Weighing with tolerance range:

Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.



## Verification possible:

The time required for verification is specified in the pictogram.



## Network interface:

For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.



## Vibration-free weighing:

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



## DAkkS calibration possible:

The time required for DAkkS calibration is shown in days in the pictogram.



## GLP/ISO log:

The balance displays the weight, date and time, regardless of a printer connection.



## Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram. For details see the glossary.



## Package shipment:

The time required for internal shipping preparations is shown in days in the pictogram.



## GLP/ISO log:

With weight, date and time. Only with KERN printers, see "Accessories"



## ATEX explosion protection:

Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.



## Pallet shipment:

The time required for internal shipping preparations is shown in days in the pictogram.



## Piece counting:

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



## Stainless steel:

The balance is protected against corrosion.



## Warranty:

The warranty period is shown in the pictogram.

## Bench scales

<b>ECE · ECB</b>	59	<b>FKB-A</b>	64
Plain, mobile, uncomplicated		Bench scale up to 65 kg with large weighing plate	
<b>FCE-N</b>	60	<b>FKB / FKB-M</b>	65
Entry-level bench scale – mobile, practical, lightweight		Large, high resolution bench scale, also with EC type approval [M]	
<b>FCB</b>	61	<b>FKT</b>	66
Bench scale with second display on the backside		Touchscreen industrial scale with enormous range of functions, also with EC type approval [M]	
<b>GAB-N</b>	62		
Checkweighing and portioning scale, also with EC type approval [M]			
<b>GAB-P</b>	63		
Checkweighing and portioning scale with integrated printer and EC type approval [M]			

### 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 165 f.

### 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 30 / 31 (PKT), 40 / 41 (PET), 50 / 51 (AET), 66 / 67 (FKT), 81 / 83 (FKTF), 98 (FKA), 99 (FKC), 114 / 115 (IKT), 116 / 117 (ILT)

→ See the glossary on page 191 – 192













Your KERN product specialist will be happy to help:



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# Quick-Finder Bench scales

Read-out	Weighing range	Model	Price excl. of VAT ex works €	Page	 ready for shipping									
[d]	[Max]	KERN				For an explanation on the pictos, see the front flap								
0,02 g	6 kg	FKB 6K0.02	490,-	65	1		●		●	●		●	○	○
0,02 g	6 kg	FKT 6K0.02L	890,-	66	1		●	●	●	●		●	○	○
0,05 g	6 kg	GAB 6K0.05N	295,-	62	1		●		●	●				○
0,05 g	6 kg	GAB 6K-5P	560,-	63	1		●		●	●				●
0,05 g	8 kg	FKB 8K0.05	460,-	65	1		●		●	●		●	○	○
0,05 g	16 kg	FKB 16K0.05	560,-	65	1		●		●	●		●	○	○
0,05 g	16 kg	FKT 16K0.05L	890,-	66	1		●	●	●	●		●	○	○
0,1 g	3 kg	FCB 3K0.1	220,-	61	1		●		●	●		●	○	○
0,1 g	6 kg	FKT 6K0.1	790,-	66	1		●	●	●	●		●		○
0,1 g	8 kg	FCB 8K0.1	230,-	61	1		●		●	●		●	○	○
0,1 g	8 kg	FKB 8K0.1A	300,-	64	1		●		●	●		●	○	○
0,1 g	8 kg	FKB 8K0.1M	530,-	65	1	○	●		●	●			○	
0,1 g	12 kg	GAB 12K0.1N	295,-	62	1		●		●	●				○
0,1 g	12 kg	GAB 10K-4P	550,-	63	1		●		●	●				●
0,1 g	16 kg	FKB 16K0.1	460,-	65	1		●		●	●		●	○	○
0,1 g	36 kg	FKB 36K0.1	520,-	65	1		●		●	●		●	○	○
0,1 g	36 kg	FKT 36K0.1L	890,-	66	1		●	●	●	●		●	○	○
0,2 g	12 kg	FKT 12K0.2	790,-	66	1		●	●	●	●		●		○
0,2 g	30 kg	GAB 30K0.2N	295,-	62	1		●		●	●				○
0,2 g	30 kg	GAB 30K-4P	550,-	63	1		●		●	●				●
0,2 g	36 kg	FKB 36K0.2	480,-	65	1		●		●	●		●	○	○
0,2 g	65 kg	FKB 65K0.2	500,-	65	1		●		●	●		●	○	○
0,2 g	65 kg	FKT 65K0.2L	890,-	66	1		●	●	●	●		●	○	○
0,5 g	6 kg	FCB 6K0.5	195,-	61	1		●		●	●		●	○	○
0,5 g	15 kg	FKB 15K0.5A	290,-	64	1		●		●	●		●	○	○
0,5 g	30 kg	FKT 30K0.5L	790,-	66	1		●	●	●	●		●	○	○
0,5 g	65 kg	FKB 65K0.5	480,-	65	1		●		●	●		●	○	○
1 g	3 kg	FCE 3K1N	110,-	60	1		●						○	○
1 g	6 kg	FKT 6K1LM	890,-	66	1	○	●	●	●	●		●	○	
1 g	12 kg	FCB 12K1	180,-	61	1		●		●	●		●	○	○
1 g	15 kg	FKB 15K1A	260,-	64	1		●		●	●		●	○	○
1 g	30 kg	FCB 30K1	220,-	61	1		●		●	●		●	○	○
1 g	30 kg	FKB 30K1A	290,-	64	1		●		●	●		●	○	○
1 g	60 kg	FKT 60K1L	790,-	66	1		●	●	●	●		●	○	○
1 g	65 kg	FKB 65K1A	300,-	64	1		●		●	●		●	○	○
1 g	65 kg	FKB 65K1M	550,-	65	1	○	●		●	●			○	
1   2 g	3   6 kg	GAB 6K1DNM	230,-	62	1	○	●		●	●				○
1   2 g	3   6 kg	GAB 6K-3PM	480,-	63	1	○	●		●	●				●
2 g	6 kg	FCE 6K2N	110,-	60	1		●						○	○
2 g	12 kg	FKT 12K2LM	890,-	66	1	○	●	●	●	●		●	○	
2 g	24 kg	FCB 24K2	180,-	61	1		●		●	●		●	○	○
2   5 g	6   15 kg	GAB 15K2DNM	230,-	62	1	○	●		●	●				○
2   5 g	6   15 kg	GAB 10K-3PM	480,-	63	1	○	●		●	●				●
5 g	10 kg	ECE 10K5	100,-	59	1		●						○	○
5 g	10 kg	ECB 10K5	120,-	59	1		●						○	○
5 g	15 kg	FCE 15K5N	110,-	60	1		●						○	
5 g	30 kg	FKT 30K5LM	890,-	66	1	○	●	●	●	●		●	○	
5   10 g	15   30 kg	GAB 30K5DNM	230,-	62	1	○	●		●	●				○
5   10 g	15   30 kg	GAB 30K-3PM	480,-	63	1	○	●		●	●				●
10 g	20 kg	ECB 20K10	120,-	59	1		●						○	○
10 g	20 kg	ECE 20K10	100,-	59	1		●						○	○
10 g	30 kg	FCE 30K10N	110,-	60	1		●						○	○
10 g	60 kg	FKT 60K10LM	890,-	66	1	○	●	●	●	●		●	○	
20 g	50 kg	ECE 50K20	100,-	59	1		●						○	○
20 g	50 kg	ECB 50K20	120,-	59	1		●						○	○

● = Standard

○ = Option

# Bench scales KERN ECE · ECB



sim. to illustration



sim. to illustration



05

## 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**
- **Adjusting program CAL,** external test weights at an additional price, see page 165 ff.

### Technical data

- Large backlit LCD display, digit height 21 mm
- Weighing plate dimensions (ECE: Plastic, ECB: stainless steel) WxD 320x260 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

- **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, **€ 65,-**
- **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 from stainless steel,** ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 161, KERN RFS-A02, **€ 50,-**

#### 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	
							DAkKS KERN	€
<b>KERN</b>								
ECE 10K5	10	5	5	± 20	1,5	100,-	963-128	88,-
ECE 20K10	20	10	10	± 40	1,5	100,-	963-128	88,-
ECE 50K20	50	20	20	± 80	1,5	100,-	963-128	88,-
<b>ECB</b>								
ECB 10K5	10	5	5	± 20	1,7	120,-	963-128	88,-
ECB 20K10	20	10	10	± 40	1,7	120,-	963-128	88,-
ECB 50K20	50	20	20	± 60	1,7	120,-	963-128	88,-



# Bench scale KERN FCE-N



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

### Features

- **Simple and convenient 2-key operation**
- **Very fast display:** steady weight values within 2 sec
- Ideal as a compact letter and parcel scale, especially where space is limited
- 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 retrofitted, KERN FCB-A02, **€ 25,-**
- **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, **€ 45,-**

#### STANDARD



#### OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DAkKS Calibr. Certificate	
						DAkKS 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



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Bench scale with second display on the backside

**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, plate, 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 retrofitted, KERN FCB-A02, **€ 25,-**
- **Rechargeable battery pack internal**, operating time up to 10 h without backlight, charging time approx. 10 h, can be retrofitted, KERN FCB-A01, **€ 45,-**
- **Suitable printers** see page 157 ff.

STANDARD

CAL EXT

RS 232

GLP

PC

RECIPE

PERCENT

UNIT

MOVE

BATT

230 V

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	
							DAkKS 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	230,-	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	180,-	963-128	88,-
FCB 30K1	30	1	1	± 3	2	220,-	963-128	88,-
FCB 24K2	24	2	2	± 6	4	180,-	963-128	88,-

Bench scale KERN GAB-N



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
- Dimensions of weighing plate (stainless steel) WxD 294x225 mm

- Overall dimensions WxDxH 320x330x125 mm
- Net weight approx. 3,3 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover**, KERN CFS-A02, € 25,-
- **Signal lamp** for visual support of weighing with tolerance range. Three-colour LED (yellow, green, red), for details see page 160. Overall dimensions WxDxH 100x180x300 mm, 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,-

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 duties in commercial trade

- **Y cable** for parallel connection of two terminal devices to the RS-232 interface on the balance, e.g. signal lamp and printer, KERN CFS-A04, € 35,-
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD

CAL EXT

RS 232

GLP  
PRINTER

PCS

SUM

PERCENT

UNIT

TOL

230 V

DMS

1 DAY

2 YEARS  
WARRANTY

OPTION

ACCU

DAkKS  
+3 DAYS

FACTORY

M  
+3 DAYS

only  
GAB-DNM

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 KERN	€	DAkKS KERN	€
KERN										
GAB 6K0.05N	6	0,05	-	-	0,05	295,-	-	-	963-128	88,-
GAB 12K0.1N	12	0,1	-	-	0,1	295,-	-	-	963-128	88,-
GAB 30K0.2N	30	0,2	-	-	0,2	295,-	-	-	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 scale 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,-





05

## 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
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department, ...)
- **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

- The determined weight, quantity, totals, percentage etc. can be printed out clearly with date and time
- **Internal printer:** Robust high-speed thermal printer. Fast and easy change of paper rolls thanks to innovative paper compartment construction

### 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

### 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:** In commercial trade, official verification duties exist

### Accessories

- **Thermal receipt rolls** (10 pieces), width 56 mm, Ø 51 mm, KERN RFS-A10, **€ 35,-**
- **Signal lamp** for visual support of weighing with tolerance range, WxDxH 100x180x300 mm, 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** an extensive accessories range, see page 157 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 KERN	€	DAKKS KERN	€
KERN										
GAB 6K-5P	6	0,05	-	-	0,05	560,-	-	-	963-128	88,-
GAB 10K-4P	12	0,1	-	-	0,1	550,-	-	-	963-128	88,-
GAB 30K-4P	30	0,2	-	-	0,2	550,-	-	-	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 scale switches automatically to the next largest weighing range [Max] and readout [d].										
GAB 6K-3PM	3 6	1 2	1 2	20	20	480,-	965-228	55,-	963-128	88,-
GAB 10K-3PM	6 15	2 5	2 5	40	40	480,-	965-228	55,-	963-128	88,-
GAB 30K-3PM	15 30	5 10	5 10	100	100	480,-	965-228	55,-	963-128	88,-

# Bench scale KERN FKB-A



## 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> (paper, material, metal) or els

### 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 retrofitted, KERN FKB-A02, **€ 25,-**
- **Rechargeable battery pack internal**, operating time up to 8 h, charging time approx. 10 h can be retrofitted, KERN PCB-A01, **€ 65,-**
- **Suitable printers** an extensive accessories range, see page 157 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	
							DAkks 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,-



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
- not for FKB-M: **Freely programmable weighing unit**, e.g. direct display 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 retrofitted, KERN FKB-A02, **€ 25,-**
- 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 from stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 161, KERN RFS-A02, **€ 50,-**
- **Suitable printers** an extensive accessories range, see page 157 ff.

## STANDARD



## OPTION



## FACTORY

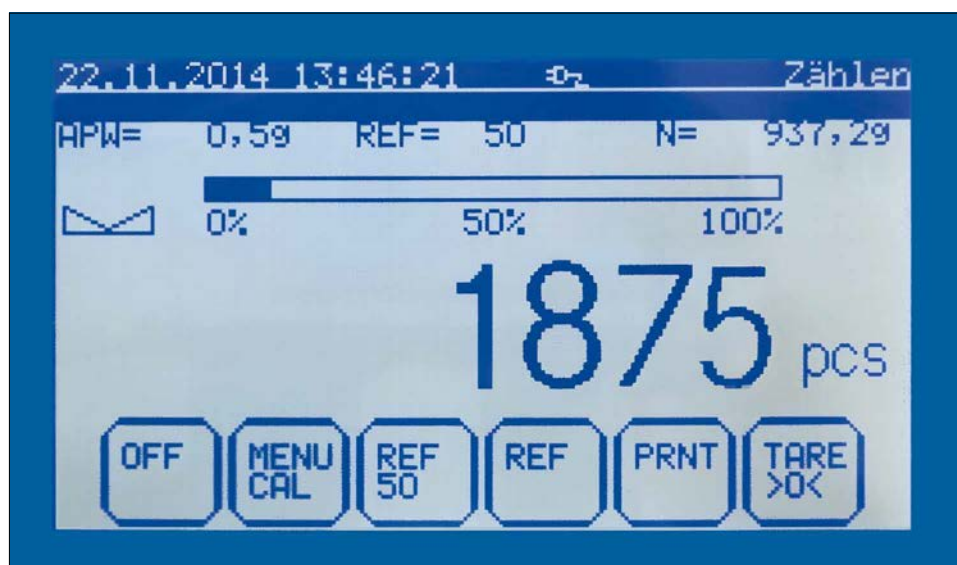


Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
								MII KERN	€	DAkkS KERN	€
KERN											
FKB 6K0.02	6	0,02	-	0,04	± 0,1	0,02	490,-	-	-	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	500,-	-	-	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	530,-	965-217	77,-	963-128	88,-
FKB 65K1M	65	1	10	1	± 2	1	550,-	965-218	110,-	963-129	105,-





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 with several functions assigned to them or unclear markings
  - Large keys, which can also be operated while wearing gloves
  - More efficient, rapid operation



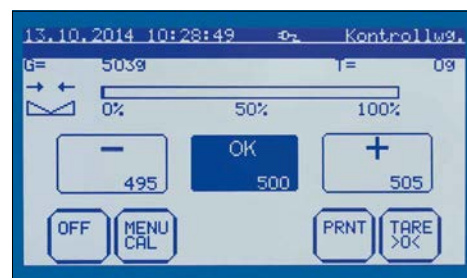
## Easy entering of text and values

e.g. up to 80 item descriptions, user name, weights for tare containers, etc. using large keypad



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

e.g. for checkweighing, PRE-TARE, reference weight, target weight when 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 with 10 components each can be stored in plain text (FKT-M: 5 recipes with 7 components each). If there is an excess amount of one recipe ingredient the practical back calculation function automatically calculates the new target weights of the other ingredients. The actual and target values and the proportional 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 where the ingredients have been recorded as percentages can easily be multiplied when a new target weight is entered, target weight, which is ideal for the production of larger containers, bulk packs etc.
- **16 print forms** which can store up to 20 pieces of information, such as, e.g. date, time, operator, item, net, tare, gross, PCS, target weight, PRE-TARE etc. The print forms can be created easily in an Excel list at the PC and transferred to the balance using the RS-232 interface
- **Rapid function** for shortened stabilisation time with reduced resolution
- **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 




## Technical data

- Backlit LCD graphic display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Weighing plate dimensions WxD  
 253x228 mm  
 340x240 mm, see enlarged picture
- Overall dimensions WxDxH  
 270x345x106 mm  
 350x390x120 mm
- Optional battery operation, only for models with weighing plate size  , 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 retrofitted, for models with weighing plate size  KERN FCB-A02, **€ 25,-**  
 KERN FKB-A02, **€ 25,-**
- **Rechargeable battery pack external**, operating time up to 10 h with backlight, charging time approx. 10 h, not for FKT-M, KERN KS-A01, **€ 180,-**
- **Signal lamp** for visual support of weighing with tolerance range, for details see page 160, KERN IKT-A04, **€ 250,-**
- **RS-232/Ethernet adapter**, to connect balances with an RS-232 interface to a network via Ethernet, for details see page 158, KERN YKI-01, **€ 390,-**
- **Suitable printers** and an extensive accessories range, see page 157 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  , not for 
- ⑪ Rapid function, not for 

## Functions

- Capacity display, with ① - ②, ⑤ - ⑦, ⑨ - ⑪
- Dispensing aid (-/+), with ③, ④
- Net/Gross display, permanent on, with ①, ③ - ⑤, ⑧ - ⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- Tare deduction 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. direct display 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	Verification 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	
KERN										 KERN	€	DAKKS KERN	€
FKT 6K0.1	6	0,1	-	-	0,1	± 0,2	0,1		790,-	-	-	963-128	88,-
FKT 12K0.2	12	0,2	-	-	0,2	± 0,4	0,2		790,-	-	-	963-128	88,-
FKT 30K0.5L	30	0,5	-	-	0,5	± 1	0,5		790,-	-	-	963-128	88,-
FKT 60K1L	60	1	-	-	1	± 2	1		790,-	-	-	963-129	105,-
High resolution readout													
FKT 6K0.02L	6	0,02	-	-	0,04	± 0,1	0,02		890,-	-	-	963-128	88,-
FKT 16K0.05L	16	0,05	-	-	0,1	± 0,25	0,05		890,-	-	-	963-128	88,-
FKT 36K0.1L	36	0,1	-	-	0,2	± 0,5	0,1		890,-	-	-	963-128	88,-
FKT 65K0.2L	65	0,2	-	-	0,4	± 1	0,2		890,-	-	-	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.													
FKT 6K1LM	6	1	1	20	0,5	± 0,5	1		890,-	950-128	55,-	963-128	88,-
FKT 12K2LM	12	2	2	40	1	± 1	1		890,-	950-128	55,-	963-128	88,-
FKT 30K5LM	30	5	5	100	2,5	± 2,5	5		890,-	950-128	55,-	963-128	88,-
FKT 60K10LM	60	10	10	200	5	± 5	10		890,-	950-129	93,-	963-129	105,-

# Tradition and innovation for more than 170 years

An independent family business, KERN since already 6 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

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



► 2013

Starting construction of Ziegelei 2.0 with computer-controlled high-bay warehouse



► 2014

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



## 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