



Cikkód	Listaár	Kedvezmény	Akciós ár
CPB 6K0.1N	225 €	20%	<b>180 €</b>
CPB 15K0.2N	225 €	20%	<b>180 €</b>
CPB 30K0.5N	225 €	20%	<b>180 €</b>
CPB 6K1DM	225 €	20%	<b>180 €</b>
CPB 15K2DM	225 €	20%	<b>180 €</b>
CPB 30K5DM	225 €	20%	<b>180 €</b>
CXB 3K0.2	230 €	20%	<b>184 €</b>
CXB 6K0.5	230 €	20%	<b>184 €</b>
CXB 15K1	230 €	20%	<b>184 €</b>
CXB 30K2	230 €	20%	<b>184 €</b>
CXB 3K1NM	245 €	20%	<b>196 €</b>
CXB 6K2NM	245 €	20%	<b>196 €</b>
CXB 15K5NM	245 €	20%	<b>196 €</b>
CXB 30K10NM	245 €	20%	<b>196 €</b>
CKE 360-3	290 €	25%	<b>218 €</b>
CKE 2000-2	330 €	25%	<b>248 €</b>
CKE 3600-2	350 €	25%	<b>263 €</b>
CKE 6K0.02	490 €	25%	<b>368 €</b>
CKE 8K0.05	470 €	25%	<b>353 €</b>
CKE 16K0.05	570 €	25%	<b>428 €</b>
CKE 16K1	460 €	25%	<b>345 €</b>
CKE 36K0.1	520 €	25%	<b>390 €</b>
CKE 65K0.2	520 €	25%	<b>390 €</b>
CKE 65K0.5	480 €	25%	<b>360 €</b>
IFS 6K-4S	390 €	25%	<b>293 €</b>
IFS 10K-4	405 €	25%	<b>304 €</b>
IFS 30K0.2DL	450 €	25%	<b>338 €</b>
IFS 60K0.5D	450 €	25%	<b>338 €</b>
IFS 60K0.5DL	550 €	25%	<b>413 €</b>
IFS 100K-3	630 €	25%	<b>473 €</b>
IFS 100K-3L	790 €	25%	<b>593 €</b>
IFS 300K-3	790 €	25%	<b>593 €</b>
IFS 6K-3SM	350 €	25%	<b>263 €</b>
IFS 6K-3M	410 €	25%	<b>308 €</b>
IFS 10K-3M	410 €	25%	<b>308 €</b>
IFS 10K-3LM	460 €	25%	<b>345 €</b>
IFS 30K-3M	460 €	25%	<b>345 €</b>
IFS 60K-2M	460 €	25%	<b>345 €</b>
IFS 60-2LM	550 €	25%	<b>413 €</b>
IFS 100K-2M	550 €	25%	<b>413 €</b>
IFS 100K-2LM	720 €	25%	<b>540 €</b>
IFS 300K-2M	720 €	25%	<b>540 €</b>
CCA 6K-5M	890 €	25%	<b>668 €</b>
CCA 10K 10K-5M	890 €	25%	<b>668 €</b>
CCA 30K-5M	960 €	25%	<b>720 €</b>
CCA 60K-5M	960 €	25%	<b>720 €</b>
CCA 100K-5M	1 070 €	25%	<b>803 €</b>
CCA 300K-5M	1 250 €	25%	<b>938 €</b>



Counting system KERN CCA



Counting scale KERN CXB · CXB-NM



Counting scale KERN CKE



Counting scale KERN CPB



Counting scale KERN IFS

Counting system KERN CCA

NEW



High-resolution counting system with EC type approval [M] to count the smallest parts in the largest quantities, counting resolution up to 300.000.000 points

### Features

- The highly accurate KERN CCS counting system can replace a whole range of individual balances, efficiently and at a reasonable price
- Thanks to EC type approval [M], it is also suitable for use in verified applications
- The balances are connected to one another with an RS-232 Y-cable (KERN CCA-A01, included with delivery), which also allows you to connect a printer

### Reference scale KERN EWJ

- This precision balance, which can be used as an individual balance, also fulfils the highest demands through connection with a high-capacity weighing bridge
- **Easy to use:** All primary functions have their own key on the keypad
- **Automatic internal adjustment,** time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- Draught shield standard, weighing space W×D×H 134×128×80 mm
- **Protective working cover** included with delivery

### Quantity scale KERN IFS

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN CCA. In this way even the smallest of parts can be counted in large volumes
- **Tough industry standard** suitable for use in harsh industrial applications
- **Tough industry standard** suitable for use in harsh industrial applications
- **Ergonomic display device** with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- **Three displays** for weight display (verifiable), reference weight, total pieces
- **100 item memories** for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- Printout of date and time for GLP and GMP compliant data logging
- **Precise counting:** The manual reference weight optimisation gradually improves the average value of the piece weight
- **Totalising** of pieces when counting
- **Aluminium Single-Point load cell** (1×3000 e), protection against dust and water splashes IP65

- **Protective working cover** included with delivery

### Technical data

#### Reference scale KERN EWJ

- Overall dimensions (incl. draught shield) W×D×H 220×340×321 mm
- Dimensions weighing surface, stainless steel ø 120 mm
- Net weight approx. 3,2 kg
- Connection cable approx. 1,5 m

#### Quantity scale KERN IFS

- Weighing plate dimensions W×D×H, stainless steel
  - A** 300×240×110 mm
  - B** 400×300×120 mm, see larger picture
  - C** 500×400×140 mm
  - D** 650×500×140 mm

### Accessories

- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03
- **RS-232/WiFi adapter** for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01

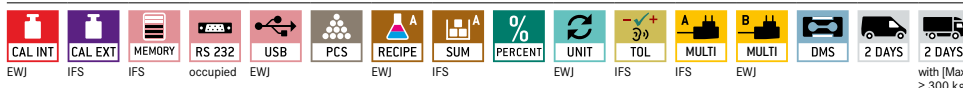
### Reference scale KERN EWJ

- **Protective working cover,** scope of delivery: 5 items, KERN EWJ-A04S05
- **Rechargeable battery pack internal,** operating time up to 15 h without backlight, charging time approx. 4 h, KERN KFB-A01

### Quantity scale KERN IFS

- **Protective working cover,** scope of delivery: 5 items, KERN KFB-A02S05
- **Rechargeable battery pack internal,** operating time up to 40 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01
- Further details, plenty of further accessories and suitable printers see *Accessories*

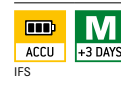
### STANDARD



### OPTION



### FACTORY



Model	Weighing capacity Quantity scale [Max] kg	Readability Quantity scale [d] g	Weighing plate	Weighing capacity Reference scale [Max] g	Readability Reference scale [d] g	Counting resolution Points	Smallest part weight [Normal] g/piece	Option	
								Verification	
KERN								M	KERN
CCA 6K-5M	3 6	1 2	A	600	0,01	6.000.000	0,2		965-228-216
CCA 10K-5M	6 15	2 5	A	600	0,01	15.000.000	0,2		965-228-216
CCA 30K-5M	15 30	5 10	B	600	0,01	30.000.000	0,2		965-228-216
CCA 60K-5M	30 60	10 20	B	600	0,01	60.000.000	0,2		965-229-216
CCA 100K-5M	60 150	20 50	C	600	0,01	150.000.000	0,2		965-229-216
CCA 300K-5M	150 300	50 100	C	600	0,01	300.000.000	0,2		965-229-216

## Pictograms

<b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	<b>KERN Communication Protocol (KCP):</b> 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	<b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.
<b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required	<b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	<b>Stainless steel:</b> The balance is protected against corrosion
<b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC, tablet or smartphone	<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers	<b>Suspended weighing:</b> Load support with hook on the underside of the balance
<b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	<b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	<b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
<b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers	<b>Rechargeable battery pack:</b> Rechargeable set
<b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	<b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	<b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS
<b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	<b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	<b>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
<b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals	<b>Recipe level C:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition	<b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
<b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	<b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out	<b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
<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: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
<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: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
<b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements	<b>Weighing with tolerance range:</b> (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	<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>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	<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		<b>DAKkS calibration possible:</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>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram
		<b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram

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## KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAKkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAKkS calibration laboratory today is one of the most modern and best-equipped DAKkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAKkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

### Range of services:

- DAKkS calibration of balances with a maximum load of up to 50 t
- DAKkS calibration of weights in the range of 1 mg - 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

## Your KERN specialist dealer:



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**8000 Székesfehérvár Topolyai utca 2**  
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**Fax:+36 22 502 604**  
**email: info@brwtools.hu**  
**Web: www.brwtools.hu**

## Counting scale KERN CKE



Easy to use, self-explanatory counting scale with laboratory accuracy, counting resolution up to 360,000 points

### Features

- **Self-explanatory graphic control panel**, the workings steps can be understood immediately, even without operating instructions
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  - 1 Place the empty container onto the weighing plate and tare by pressing the TARE key
  - 2 Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
  - 3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
  - 4 Pour in the goods to be counted. The number of pieces will immediately be shown in the display

- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key
- **Protective working cover** included with delivery

### Technical data

- Large backlit display
  - A, B digit height 9 mm
  - C digit height 25 mm
- Dimensions weighing surface
  - A ø 81 mm, plastic
  - B WxD 150x170 mm, stainless steel
  - C 6 340x240 mm, stainless steel

- Overall dimensions WxDxH

A, B 167x250x85 mm

C 350x390x120 mm

- Optional battery operation, 6x1.5 V Size C not included in scope of delivery, operating time up to 40 h, for models with weighing plate size C
- Permissible ambient temperature 10 °C/40 °C

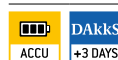
### Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A KERN PCB-A02S05
  - B KERN PCB-A05S05
  - C KERN FKB-A02S05
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- **Internal rechargeable battery pack**, operating time up to 30 h without backlight, charging time approx. 10 h, for models with weighing plate size A, B, KERN KB-A01N
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Option	
							DAkkS	Calibr. Certificate
<b>KERN</b>								
CKE 360-3	0,36	0,001	0,01	360.000	1	A	963-127	
CKE 2000-2	2	0,01	0,1	200.000	1,8	B	963-127	
CKE 3600-2	3,6	0,01	0,1	360.000	1,8	B	963-127	
CKE 6K0.02	6	0,02	0,2	300.000	7	C	963-128	
CKE 8K0.05	8	0,05	0,5	160.000	7	C	963-128	
CKE 16K0.05	16	0,05	0,5	320.000	7	C	963-128	
CKE 16K0.1	16	0,1	1	160.000	7	C	963-128	
CKE 36K0.1	36	0,1	1	360.000	7	C	963-128	
CKE 65K0.2	65	0,2	2	325.000	7	C	963-129	
CKE 65K0.5	65	0,5	5	130.000	7	C	963-129	

<sup>3</sup>price reduction

## Pictograms

<b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	<b>KERN Communication Protocol (KCP):</b> 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	<b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.
<b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required	<b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	<b>Stainless steel:</b> The balance is protected against corrosion
<b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC, tablet or smartphone	<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers	<b>Suspended weighing:</b> Load support with hook on the underside of the balance
<b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	<b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	<b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
<b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers	<b>Rechargeable battery pack:</b> Rechargeable set
<b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	<b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	<b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS
<b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	<b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	<b>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
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<b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	<b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out	<b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
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<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: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
<b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements	<b>Weighing with tolerance range:</b> (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	<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>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	<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		<b>DAKkS calibration possible:</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>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram
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To ensure the high precision of your balance KERN offers you the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAKkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAKkS calibration laboratory today is one of the most modern and best-equipped DAKkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAKkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

### Range of services:

- DAKkS calibration of balances with a maximum load of up to 50 t
- DAKkS calibration of weights in the range of 1 mg - 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

## Your KERN specialist dealer:



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## Counting scale KERN CPB



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

Professional model, also with EC type approval [M], counting resolution up to 60,000 points

### Features

- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for weight display (verifiable), reference weight, total pieces
- **Counting results memory:** adds up all individual piece counts, result is shown in total weight and total pieces
- **Fill-to-target function:** Target count or target weight can be programmed. A signal will be displayed when the target value is reached
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels

- **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.)
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key
- **Protective working cover** included with delivery

### Technical data

- Large backlit LCD displays, digit height 20 mm
- Dimensions weighing surface, stainless steel, WxD 295x225 mm
- Overall dimensions WxDxH 315x350x105 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C/40 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05
- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03
- **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
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Option			
							Verification		DAkkS Calibr. Certificate	
							M	KERN	DAkkS	KERN
CPB 6K0.1N	6	0,1	-	-	1	60.000	-	-	963-128	
CPB 15K0.2N	15	0,2	-	-	2,5	60.000	-	-	963-128	
CPB 30K0.5N	30	0,5	-	-	5	60.000	-	-	963-128	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]										
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.										
CPB 6K1DM	3   6	1   2	1   2	20	1	60.000	965-228		963-128	
CPB 15K2DM	6   15	2   5	2   5	40	2,5	60.000	965-228		963-128	
CPB 30K5DM	15   30	5   10	5   10	100	5	60.000	965-228		963-128	

## Pictograms

<b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	<b>KERN Communication Protocol (KCP):</b> 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	<b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.
<b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required	<b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	<b>Stainless steel:</b> The balance is protected against corrosion
<b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC, tablet or smartphone	<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers	<b>Suspended weighing:</b> Load support with hook on the underside of the balance
<b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	<b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	<b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
<b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers	<b>Rechargeable battery pack:</b> Rechargeable set
<b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	<b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	<b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS
<b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	<b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	<b>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
<b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals	<b>Recipe level C:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition	<b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
<b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	<b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out	<b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
<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: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
<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: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
<b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements	<b>Weighing with tolerance range:</b> (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	<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>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	<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		<b>DAKkS calibration possible:</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>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram
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To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAKkS calibration certificate the best pre-requisite for proper balance calibration.

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### Range of services:

- DAKkS calibration of balances with a maximum load of up to 50 t
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- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

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Counting scale KERN CXB · CXB-NM



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

Entry level model into professional counting, also with EC type approval [M], counting resolution of 30,000 points

### Features

- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for weight display (verifiable), reference weight, total pieces
- **Fill-to-target function:** Target count or target weight can be programmed. A signal will be displayed when the target value is reached
- 10 memories for reference weights
- **Counting results memory:** adds up all individual piece counts, result is shown in total weight and total pieces
- **Integrated ESD protection,** therefore suitable for weighing small plastic parts

- **Energy management:** Backlight turns off after 5 s
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key
- **Protective working cover** included with delivery
- **Internal rechargeable battery pack** included with delivery

### Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 300×225 mm
- Dimensions housing W×D×H, 300×330×110 mm
- Rechargeable battery pack internal, operating time up to 200 h without backlight, charging time approx. 8 h
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- **Protective working cover,** scope of delivery: 5 items, KERN CXB-A01S05
- **Rechargeable battery pack internal,** operating time up to 200 h without backlight, charging time approx. 8 h, KERN GAB-A04

#### STANDARD



#### OPTION



#### FACTORY



CXB-NM

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Net weight approx. kg	Option			
								Verification		DAkkS Calibr. Certificate	
								M	KERN	DAkkS	KERN
CXB 3K0.2	3	0,2	-	-	1	30.000	4,0	-	-	963-127	-
CXB 6K0.5	6	0,5	-	-	2	30.000	4,0	-	-	963-128	-
CXB 15K1	15	1	-	-	5	30.000	4,0	-	-	963-128	-
CXB 30K2	30	2	-	-	10	30.000	4,2	-	-	963-128	-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
Verification at the factory, we need to know the full address of the location of use.											
CXB 3K1NM	3	1	1	20	1	30.000	4,0	965-227	-	963-127	-
CXB 6K2NM	6	2	2	40	2	30.000	4,2	965-228	-	963-128	-
CXB 15K5NM	15	5	5	100	5	30.000	4,0	965-228	-	963-128	-
CXB 30K10NM	30	10	10	200	10	30.000	4,2	965-228	-	963-128	-



## Pictograms

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<b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	<b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	<b>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
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<b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	<b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out	<b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
<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: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
<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: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
<b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements	<b>Weighing with tolerance range:</b> (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	<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>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	<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		<b>DAKkS calibration possible:</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>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram
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## Counting scale KERN IFS



Industrial counting scale with convenient decimal keypad for easy data entry – now also with EC type approval [M], counting resolution up to 75000 points

### Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **Ergonomic display device** with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- **Three displays** for weight display (verifiable), reference weight, total pieces
- **100 item memories** for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- Printout of date and time for GLP and GMP compliant data logging

- **Precise counting:** The manual reference weight optimisation gradually improves the average value of the piece weight
- **Totalising** of pieces when counting
- **Protective working cover** included with delivery

### Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
  - A 230×230×110 mm
  - B 300×240×110 mm
  - C 400×300×120 mm
  - D 500×400×140 mm
  - E 650×500×140 mm

- Dimensions of display device W×D×H 260×150×65 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN KFB-A02S05
- **Stand** to elevate display device, Height of stand approx. 330 mm, KERN IFB-A01 Column height approx. 600 mm, for models with weighing plate size **D**, **E**, KERN IFB-A02
- **Rechargeable battery pack internal**, operating time up to 40 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01
- **ESD drain** to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01
- Further details, plenty of further accessories and suitable printers see *Accessories*

### STANDARD



### OPTION



### FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Option		
								Verification	DAkkS Calibr. Certificate	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]										
IFS 6K-4S	3   6	0,1   0,2	-	1	60.000	4,6	A	-	-	963-128
IFS 10K-4	6   15	0,1   0,2	-	2	75.000	6	B	-	-	963-128
IFS 30K0.2DL	12   30	0,2   0,5	-	5	60.000	11	C	-	-	963-128
IFS 60K0.5D	30   60	0,5   1	-	10	60.000	10	C	-	-	963-129
IFS 60K0.5DL	30   60	0,5   1	-	10	60.000	12	D	-	-	963-129
IFS 100K-3	75   150	1   2	-	25	60.000	12	D	-	-	963-129
IFS 100K-3L	75   150	1   2	-	25	60.000	20	E	-	-	963-129
IFS 300K-3	150   300	2   5	-	50	60.000	22	E	-	-	963-129
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IFS 6K-3SM	3   6	1   2	1   2	1	60.000	6	A	965-228	-	963-128
IFS 6K-3M	3   6	1   2	1   2	1	60.000	6	B	965-228	-	963-128
IFS 10K-3M	6   15	2   5	2   5	2	75.000	6	B	965-228	-	963-128
IFS 10K-3LM	6   15	2   5	2   5	2	75.000	10	C	965-228	-	963-128
IFS 30K-3M	15   30	5   10	5   10	5	60.000	10	C	965-228	-	963-128
IFS 60K-2M	30   60	10   20	10   20	10	60.000	11	C	965-229	-	963-129
IFS 60K-2LM	30   60	10   20	10   20	10	60.000	13	D	965-229	-	963-129
IFS 100K-2M	60   150	20   50	20   50	25	60.000	12	D	965-229	-	963-129
IFS 100K-2LM	60   150	20   50	20   50	25	60.000	22	E	965-229	-	963-129
IFS 300K-2M	150   300	50   100	50   100	50	60.000	22	E	965-229	-	963-129

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