

# PRECISION BALANCES



1,304 g



PROFESSIONAL MEASURING

2016

# KERN Pictograms

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

# 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.

## Precision balances

### Single-cell cutting edge technology Precision balances






To meet stricter requirements for precision, speed, and → **reproducibility** of weight values, monolithic load cells are ever more often becoming the standard. These are measuring sensors for the determination of weight that are made of a compact piece of aluminium. These systems distinguish themselves from conventional load cells in terms of both quality and performance:

- Higher measuring speed
- Better measuring precision
- Stable temperature behaviour
- Improved mechanical sturdiness
- Higher corner load reliability

KERN precision and analytical balances equipped with this measuring system are designated as using "Single Cell Technology" (→ **SC TECH**).

→ See the glossary on page 214 – 216

### Your product specialist's recommendation:

-  **School balance for experiment-based teaching**
-  **Saves space because it can be stacked**
-  **X-tra low profile design**



**Corinna Klaass**  
Product specialist Precision balances

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**HIGH-LIGHT**














from €  
**200,-**  
(set of 5 units)

► page 15

**KERN EMB-S**



# Quick-Finder Precision balances


Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	 DAYS ready for shipping	          For an explanation on the pictos, see the front flap									
						For an explanation on the pictos, see the front flap									
0,001 g	60 g	440-21A	350,-	22	1			●		●		●		○	○
0,001 g	100 g	EMB 100-3	195,-	16	1			●						●	
0,001 g	100 g	PCB 100-3	265,-	20	1			●		●				○	○
0,001 g	120 g	KB 120-3N	270,-	25	1			●		●				○	○
0,001 g	120 g	PFB 120-3	280,-	23	1			●		●					
0,001 g	200 g	EMB 200-3	210,-	16	1			●						●	
0,001 g	200 g	EMB 200-3V	250,-	17	1			●		●				●	
0,001 g	200 g	PFB 200-3	290,-	23	1			●		●		●			
0,001 g	200 g	PKS 200-3	420,-	26	1			●	●	●		●			○
0,001 g	220 g	EW 220-3NM	620,-	36	1			●		●		●			○
0,001 g	220 g	EG 220-3NM	760,-	36	1	○	●			●		●			○
0,001 g	240 g	KB 240-3N	280,-	25	1			●		●					○
0,001 g	240 g	572-30	520,-	30	1			●		●					○
0,001 g	250 g	PCB 250-3	290,-	20	1			●		●				○	○
0,001 g	250 g	PCD 250-3	305,-	19	1			●		●				○	○
0,001 g	300 g	EMS 300-3	260,-	18	1			●						○	
0,001 g	300 g	PFB 300-3	320,-	23	1			●		●					
0,001 g	300 g	EWJ 300-3	465,-	28	1		●			●					○
0,001 g	300 g	572-31	520,-	30	1			●		●					○
0,001 g	300 g	PKT 300-3	740,-	34	1			●	●	●		●			○
0,001 g	350 g	PCB 350-3	300,-	20	1			●		●				○	○
0,001 g	360 g	KB 360-3N	300,-	25	1			●		●					○
0,001 g	360 g	PKS 360-3	430,-	26	1			●	●	●		●			○
0,001 g	360 g	PLJ 300-3CM	710,-	33	1	○	●		●	●		●			○
0,001 g	420 g	PLE 420-3N	450,-	24	1			●		●					○
0,001 g	420 g	572-32	540,-	30	1			●		●					○
0,001 g	420 g	PLS 420-3F	590,-	31	1			●		●					○
0,001 g	420 g	EW 420-3NM	690,-	36	1			●		●		●			○
0,001 g	420 g	PLJ 420-3F	700,-	31	1		●			●		●			○
0,001 g	420 g	PKT 420-3	770,-	34	1			●	●	●		●			○
0,001 g	420 g	EG 420-3NM	830,-	36	1	○	●		●	●		●			○
0,001 g	600 g	PLJ 600-3CM	750,-	33	1	○	●		●	●		●			○
0,001 g	600 g	PET 600-3M	2500,-	41	21	○	●		●	●	●	●			○
0,001 g	620 g	PNS 600-3	590,-	32	1			●		●		●			○
0,001 g	620 g	PNJ 600-3M	720,-	32	1	○	●			●		●			○
0,001 g	620 g	EW 620-3NM	770,-	36	1			●		●		●			○
0,001 g	620 g	EG 620-3NM	930,-	36	1	○	●		●	●		●			○
0,001 g	620 g	PES 620-3M	1280,-	40	1			●		●		●			○
0,001 g	620 g	PBS 620-3M	1360,-	38	1			●		●		●			○
0,001 g	620 g	PBJ 620-3M	1590,-	38	1	○	●		●	●		●			○
0,001 g	620 g	PEJ 620-3M	1480,-	40	1	○	●		●	●		●			○
0,001 g	720 g	PLS 720-3A	850,-	31	1			●		●		●			○
0,001 g	720 g	PLJ 720-3A	990,-	31	1		●		●	●		●			○
0,001 g	720 g	PLJ 720-3AM	1050,-	31	1	○	●		●	●		●			○
0,001 g	750 g	PLJ 700-3CM	730,-	33	1	○	●		●	●	●	●			○
0,001 g	1000 g	PET 1000-3M	2800,-	41	21	○	●		●	●	●	●			○
0,001 g	1200 g	PLS 1200-3A	870,-	31	1			●		●		●			○
0,001 g	1200 g	PLJ 1200-3A	1005,-	31	1		●		●	●		●			○
0,001 g	2100 g	PLJ 2000-3A	1700,-	31	1		●			●		●			○
0,01 g	200 g	EMB 200-2	125,-	16	1			●						●	
0,01 g	200 g	PCB 200-2	230,-	20	1			●		●				○	○
0,01 g	200 g	440-33N	290,-	22	1			●		●				○	○
0,01 g	400 g	440-35N	330,-	22	1			●		●				○	○
0,01 g	600 g	EMB 600-2	160,-	16	1			●						●	
0,01 g	600 g	PFB 600-2M	270,-	23	1	○		●		●					○
0,01 g	600 g	440-35A	365,-	22	1			●		●				○	○
0,01 g	600 g	EWJ 600-2M	410,-	28	1	○	●		●	●		●			○
0,01 g	600 g	PLJ 600-2GM	540,-	33	1	○	●		●	●		●			○
0,01 g	650 g	KB 650-2NM	320,-	25	1	○		●		●					○
0,01 g	650 g	573-34NM	550,-	30	1	○		●		●					○
0,01 g	650 g	KBJ 650-2NM	690,-	25	1	○	●		●	●		●			○
0,01 g	820 g	EW 820-2NM	540,-	36	1			●		●		●			○
0,01 g	1000 g	EMB 1000-2	195,-	16	1			●						●	
0,01 g	1000 g	PCB 1000-2	255,-	20	1			●		●				○	○
0,01 g	1200 g	PFB 1200-2	245,-	23	1			●		●					○
0,01 g	1200 g	KB 1200-2N	270,-	25	1			●		●					○
0,01 g	1600 g	572-33	480,-	30	1			●		●					○
0,01 g	2000 g	EMB 2000-2	205,-	16	1			●						●	
0,01 g	2000 g	EMB 2000-2V	250,-	17	1			●		●				●	
0,01 g	2000 g	PFB 2000-2	255,-	23	1			●		●					○
0,01 g	2000 g	KB 2000-2N	270,-	25	1			●		●					○

■ = News 2016

● = Standard

○ = Option

# Quick-Finder Precision balances

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping										
						For an explanation on the pictos, see the front flap									
0,01 g	2000 g	PKS 2000-2	430,-	26	1			●	●	●		●	●		○
0,01 g	2200 g	EW 2200-2NM	660,-	36	1			●		●		●	●		○
0,01 g	2200 g	EG 2200-2NM	820,-	36	1	○	●			●		●	●		○
0,01 g	2200 g	PES 2200-2M	830,-	40	1			●		●		●	●		○
0,01 g	2200 g	PEJ 2200-2M	1040,-	40	1	○	●			●		●	●		○
0,01 g	2400 g	KB 2400-2N	280,-	25	1			●		●		●	●		○
0,01 g	2400 g	572-35	490,-	30	1			●		●		●	●		○
0,01 g	2500 g	PCB 2500-2	290,-	20	1			●		●		●	●		○
0,01 g	2500 g	PCD 2500-2	295,-	19	1			●		●		●	●	○	○
0,01 g	2500 g	PET 2500-2M	2400,-	41	21	○	●		●	●	●	●	●		○
0,01 g	3000 g	EMS 3000-2	240,-	18	1			●		●		●	●	○	
0,01 g	3000 g	PFB 3000-2	280,-	23	1			●		●		●	●		○
0,01 g	3000 g	EWJ 3000-2	445,-	28	1			●	●	●		●	●		○
0,01 g	3000 g	572-37	490,-	30	1			●		●		●	●		○
0,01 g	3100 g	PLJ 3000-2FM	660,-	31	1			●		●		●	●		○
0,01 g	3000 g	PKT 3000-2	740,-	34	1			●	●	●		●	●		○
0,01 g	3200 g	PNS 3000-2	580,-	32	1			●		●		●	●		○
0,01 g	3200 g	PNJ 3000-2M	680,-	32	1	○	●			●		●	●		○
0,01 g	3500 g	PCB 3500-2	300,-	20	1			●		●		●	●	○	○
0,01 g	3500 g	PLJ 3000-2CM	710,-	33	1	○	●		●	●		●	●		○
0,01 g	3600 g	KB 3600-2N	290,-	25	1			●		●		●	●		○
0,01 g	3600 g	PKS 3600-2	440,-	26	1			●	●	●		●	●		○
0,01 g	4200 g	PLE 4200-2N	450,-	24	1			●		●		●	●		○
0,01 g	4200 g	572-39	520,-	30	1			●		●		●	●		○
0,01 g	4200 g	PLS 4200-2F	590,-	31	1			●		●		●	●		○
0,01 g	4200 g	PLJ 4200-2F	690,-	31	1			●	●	●		●	●		○
0,01 g	4200 g	EW 4200-2NM	740,-	36	1			●		●		●	●		○
0,01 g	4200 g	PKT 4200-2	770,-	34	1			●	●	●		●	●		○
0,01 g	4200 g	EG 4200-2NM	880,-	36	1	○	●			●		●	●		○
0,01 g	4200 g	PES 4200-2M	980,-	40	1			●		●		●	●		○
0,01 g	4200 g	PBS 4200-2M	1150,-	38	1			●		●		●	●		○
0,01 g	4200 g	PEJ 4200-2M	1190,-	40	1	○	●			●		●	●		○
0,01 g	4200 g	PBJ 4200-2M	1420,-	38	1	○	●			●		●	●		○
0,01 g	6000 g	PET 6000-2M	2600,-	41	21	○	●		●	●	●	●	●		○
0,01 g	6200 g	EW 6200-2NM	810,-	36	1			●		●		●	●		○
0,01 g	6200 g	PLS 6200-2A	870,-	31	1			●		●		●	●		○
0,01 g	6200 g	PLJ 6200-2A	990,-	31	1			●	●	●		●	●		○
0,01 g	6200 g	PLJ 6200-2AM	1050,-	31	1	○	●			●		●	●		○
0,01 g	6200 g	PES 6200-2M	1210,-	40	1			●		●		●	●		○
0,01 g	6200 g	PBS 6200-2M	1380,-	38	1			●		●		●	●		○
0,01 g	6200 g	PBJ 6200-2M	1720,-	38	1	○	●			●		●	●		○
0,01 g	8200 g	PLS 8000-2A	1050,-	31	1			●		●		●	●		○
0,05 g	6 kg	PFB 6K0.05	250,-	23	1			●		●		●	●		○
0,05 g	10 kg	KB 10K0.05N	280,-	25	1			●		●		●	●		○
0,05 g	12 kg	572-45	490,-	30	1			●		●		●	●		○
0,05 g	12 kg	PKT 12K0.05	630,-	34	1			●	●	●		●	●		○
0,05 g	20 kg	572-55	520,-	30	1			●		●		●	●		○
0,1 g	200 g	EMB 200-1SS05*	200,-	15	1			●		●		●	●	○	○
0,1 g	400 g	440-43N	185,-	22	1			●		●		●	●	○	○
0,1 g	500 g	EMB 500-1SS05*	225,-	15	1			●		●		●	●	○	○
0,1 g	500 g	EMB 500-1	57,-	16	1			●		●		●	●	○	○
0,1 g	500 g	EMB 500-1GN	57,-	16	1			●		●		●	●	○	○
0,1 g	600 g	PFB 600-1M	340,-	23	1	○		●		●		●	●	○	○
0,1 g	1000 g	PCB 1000-1	185,-	20	1			●		●		●	●	○	○
0,1 g	1000 g	440-45N	245,-	22	1			●		●		●	●	○	○
0,1 g	1200 g	EMB 1200-1	80,-	16	1			●		●		●	●	○	○
0,1 g	2000 g	PCB 2000-1	215,-	20	1			●		●		●	●	○	○
0,1 g	2000 g	440-47N	270,-	22	1			●		●		●	●	○	○
0,1 g	3000 g	EMB 3000-1	125,-	16	1			●		●		●	●	○	○
0,1 g	4000 g	440-49N	330,-	22	1			●	●	●		●	●	○	○
0,1 g	6000 g	EMB 6000-1	160,-	16	1			●		●		●	●	○	○
0,1 g	6000 g	EMS 6K0.1	160,-	18	1			●		●		●	●	○	○
0,1 g	6000 g	PFB 6000-1	220,-	23	1			●		●		●	●	○	○
0,1 g	6000 g	PCB 6000-1	245,-	20	1			●		●		●	●	○	○
0,1 g	6000 g	PFB 6000-1M	260,-	23	1	○		●		●		●	●	○	○
0,1 g	6000 g	440-49A	365,-	22	1			●		●		●	●	○	○
0,1 g	6000 g	EWJ 6000-1M	400,-	28	1	○	●		●	●		●	●	○	○
0,1 g	6000 g	PLJ 6000-1GM	540,-	33	1	○	●		●	●		●	●	○	○
0,1 g	6500 g	KB 6500-1NM	320,-	25	1	○		●		●		●	●		○
0,1 g	6500 g	573-46NM	550,-	30	1	○		●		●		●	●		○
0,1 g	8200 g	PBS 8200-1M	490,-	38	1	○		●		●		●	●		○











■ = News 2016

\* set of 5 units

● = Standard

○ = Option

# Quick-Finder Precision balances

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	         									
						For an explanation on the pictos, see the front flap									
0,1 g	8200 g	PBJ 8200-1M	1410,-	38	1	○	●	●	●	●	●	●	●	●	
0,1 g	10 kg	PCD 10K0.1	220,-	19	1			●		●			○	○	
0,1 g	10 kg	PCB 10000-1	240,-	20	1			●		●			○	○	
0,1 g	10 kg	KB 10000-1N	260,-	25	1			●		●				○	
0,1 g	10 kg	PKS 10K0.1	400,-	26	1			●	●	●		●		○	
0,1 g	10 kg	572-43	480,-	30	1			●		●				○	
0,1 g	12 kg	EMS 12K0.1	205,-	18	1			●		●			○		
0,1 g	12 kg	PNS 12000-1	570,-	32	1			●		●		●			
0,1 g	12 kg	PNJ 12000-1M	680,-	32	1	○	●			●		●			
0,1 g	12 kg	EW 12000-1NM	635,-	36	1			●		●		●		○	
0,1 g	15 kg	PES 15000-1M	1190,-	40	1			●		●		●		○	
0,1 g	16 kg	572-49	480,-	30	1			●		●				○	
0,1 g	16 kg	PKT 16K0.1	630,-	34	1			●	●	●		●		○	
0,1 g	20 kg	PLS 20000-1F	590,-	31	1			●		●		●			
0,1 g	24 kg	572-57	490,-	30	1			●		●				○	
0,1 g	24 kg	PKT 24K0.1	650,-	34	1			●	●	●		●		○	
0,1 g	31 kg	PES 31000-1M	1960,-	40	1			●		●		●		○	
1 g	2000 g	EMB 2000-0SS05*	200,-	15	1			●					●		
1 g	2200 g	EMB 2200-0	60,-	16	1			●					●		
1 g	4000 g	440-51N	160,-	22	1			●		●			○	○	
1 g	5000 g	EMB 5000-0SS05*	225,-	15	1			●					●		
1 g	5200 g	EMB 5.2K1	60,-	16	1			●					●		
1 g	6000 g	EMS 6K1	70,-	18	1			●					○		
1 g	6000 g	PCB 6000-0	130,-	20	1			●		●			○	○	
1 g	6000 g	440-53N	180,-	22	1			●		●			○	○	
1 g	6000 g	PFB 6000-0M	330,-	23	1	○		●		●					
1 g	12 kg	EMS 12K1	95,-	18	1			●					○		
5 g	5200 g	EMB 5.2K5	55,-	16	1			●					●		

■ = News 2016

\* set of 5 units

● = Standard

○ = Option

# School balance KERN EMB-S



02



## The space miracle – stackable school balance for experiment-based teaching

### Features

- **Simple and convenient 2-key operation**, making them ideal for use in schools and universities
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Secure and non-slip positioning** with rubber feet
- **1 Stackable** for space-saving storage
- **2 A practical transport safety lock** prevents the weighing technology from being overloaded when stored or during transportation
- **Hook for underfloor weighing** standard

### Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface Ø 120 mm
- Weighing plate material plastic
- Net weight approx. 0,5 kg/piece
- Optional battery operation, 2 x 1,5 V AA, standard, operating time up to 35 h, AUTO-OFF function to preserve the battery
- Permissible ambient temperature 5 °C / 35 °C
- **Note:** The models are only delivered in a set of 5 units. i.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

### Accessories

- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, CH, not included, can be retrofitted, KERN YKA-03, **€ 40,-**

#### STANDARD



#### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Dimensions housing WxDxH mm	Price set of 5 units excl. of VAT ex works €	Option DAkKS Calibr. Certificate	
							DKD KERN	€/1 piece
EMB 200-1SS05	200	0,1	0,2	± 0,3	145x205x45	200,-	963-127	72,-
EMB 500-1SS05	500	0,1	0,2	± 0,3	145x205x45	225,-	963-127	72,-
EMB 2000-OSS05	2000	1	2	± 3	145x205x45	200,-	963-127	72,-
EMB 5000-OSS05	5000	1	2	± 3	145x205x45	225,-	963-127	72,-





## Entry level laboratory balance with tremendous weighing performance

### Features

- **Simple and convenient 2-key operation**, making them ideal for use in schools and universities
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Ready for use:** Batteries included
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space  $\varnothing \times H$  96x35 mm
- **Hook for underfloor weighing** standard

- **1 Anniversary Gnome edition** EMB 500-1GN, including gnome booklet

### Technical data

- Large LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel,  $\varnothing$  **A** 82 mm, **B** 105 mm, **C** 150 mm, see enlarged picture
- Weighing plate material **A** Plastic, with conductive lacquer **B**, **C** Plastic

- Net weight approx. 0,75 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **2 Ring-shaped draught shield**, plastic, only for models with weighing plate size **A**, KERN EMB-A01, **€ 20,-**
- **3 Stainless steel weighing plate**, only for models with weighing plate size **B**, KERN EMB-A02, **€ 26,-**
- **4 Stack frame** for space-saving storage of precision balances from the KERN EMB range, scope of delivery 5 pieces, for models with housing dimensions WxDxH 170x240x39 mm: KERN EMB-A07, **€ 40,-** 170x240x54 mm: KERN EMB-A09, **€ 40,-**
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, CH, not included, can be retrofitted, KERN YKA-03, **€ 40,-**

#### STANDARD



#### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Dimensions housing WxDxH mm	Weighing plate	Price excl. of VAT ex works €	Option DakKS Calibr. Certificate	
								DKD KERN	€
KERN EMB 100-3	100	0,001	0,001	± 0,005	170x240x54	A	195,-	963-127	72,-
KERN EMB 200-3	200	0,001	0,001	± 0,005	170x240x54	A	210,-	963-127	72,-
KERN EMB 200-2	200	0,01	0,01	± 0,02	170x240x39	B	125,-	963-127	72,-
KERN EMB 600-2	600	0,01	0,01	± 0,03	170x240x39	B	160,-	963-127	72,-
KERN EMB 1000-2	1000	0,01	0,01	± 0,05	170x240x54	C	195,-	963-127	72,-
KERN EMB 2000-2	2000	0,01	0,01	± 0,05	170x240x54	C	205,-	963-127	72,-
KERN EMB 500-1	500	0,1	0,1	± 0,2	170x240x39	C	57,-	963-127	72,-
KERN EMB 500-1GN	500	0,1	0,1	± 0,2	170x240x39	C	57,-	963-127	72,-
KERN EMB 1200-1	1200	0,1	0,1	± 0,3	170x240x39	C	80,-	963-127	72,-
KERN EMB 3000-1	3000	0,1	0,1	± 0,3	170x240x39	C	125,-	963-127	72,-
KERN EMB 6000-1	6000	0,1	0,1	± 0,3	170x240x39	C	160,-	963-128	88,-
KERN EMB 2200-0	2200	1	1	± 2	170x240x39	C	60,-	963-127	72,-
KERN EMB 5.2K1	5200	1	1	± 3	170x240x39	C	60,-	963-128	88,-
KERN EMB 5.2K5	5200	5	5	± 10	170x240x39	C	55,-	963-128	88,-

# Compact laboratory balance KERN EMB-V



02

## Compact laboratory balance with integrated density determination function

### Features

- **Density determination made easy!** Thanks to the self-explanatory, graphic-assisted control panel, the density of solids and liquids can be determined in seconds, making them ideal for use in schools and universities. For interesting facts about density determination see page 214
- Visualised process avoids operating errors
  - No learning time = reduces costs
  - Ideal for untrained users
- The 4 steps are carried out from left to right:
  - 1 Tare the balance by pressing the [TARE] key
  - 2 Select density determination mode (solids/liquids)
  - 3 Weighing of samples/plummet in air
  - 4 Weighing of samples/plummet in liquid. The density will be shown on the display right away
- **Particularly flat design**
- **Hook for underfloor weighing** standard

- **Ready for use:** battery 9 V block standard. AUTO-OFF function to preserve the batteries, can be switched off
- **Note:** Balance and appropriate set for density determination should be ordered at the same time, see accessories

### Technical data

- Large LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel, plastic, Ø
  - A 82 mm, with conductive lacquer
  - B 150 mm, see enlarged picture. The illustration shows the EMB 2000-2V model with optional density set YDB-02
- Overall dimensions WxDxH 170x240x54 mm
- Net weight approx. 0,8 kg
- Permissible ambient temperature 5 °C / 35 °C
- **New:** Now also with carat weighing unit:
  - EMB 200-3V: 1000 ct / 0,005 ct
  - EMB 2000-2V: 10000 ct / 0,05 ct

### Accessories

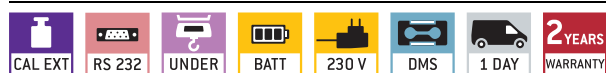
#### for KERN EMB 200-3V:

- **5 Set for density determination** of liquids and solids with density  $\leq/\geq 1$ . Scope of delivery: Weighing plate, beaker (HxØ 71x51 mm), sample holder, plummet, KERN YDB-01, € 215,-
- **Calibration certificate for the plummet** (20 g), KERN 962-335V, € 143,-

#### for KERN EMB 2000-2V:

- **6 Set for density determination** of liquids and solids with density  $\leq/\geq 1$ . Scope of delivery: Weighing plate, beaker (HxØ 135x51 mm), sample holder, plummet, KERN YDB-02, € 330,-
- **Calibration certificate for the plummet** (200 g), KERN 962-338V, € 141,-

#### STANDARD



#### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
							DKD KERN	€
EMB 200-3V	200	0,001	0,002	± 0,005	A	250,-	963-127	72,-
EMB 2000-2V	2000	0,01	0,02	± 0,05	B	250,-	963-127	72,-



Entry level model in the low-cost range with large weighing plate

**Features**

- Especially suitable for use in schools and universities, for example for biology, chemistry, physics
- **Large, shock proof plastic weighing plate**
- **Particularly flat design**
- **Ergonomically optimised key pad** with large keys and a high-contrast LCD display
- **Secure and non-slip positioning** with rubber feet
- **Adjusting program CAL**, external test weights at an additional price, see page 188 ff.
- **Draught shield** standard, only for models with weighing plate size **A**, weighing space WxDxH 145x145x65 mm

**Technical data**

- LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, **A** Ø 105 mm, **B** WxD 175x190 mm, see enlarged picture
- Weighing plate material **A** Plastic, with conductive lacquer **B** Plastic
- Dimensions housing WxDxH 200x280x63 mm
- Optional battery operation, battery 9 V block not standard, operating time up to 40 h, AUTO-OFF function to preserve the battery
- Mains adapter external, standard
- Net weight approx. 1,22 kg
- Permissible ambient temperature 5 °C / 35 °C

**Accessories**

- **2 Stainless steel weighing plate**, only for models with weighing plate size **B**, KERN EMS-A01, € 30,-
- **Suitable test weights**, also with calibration certificate see page 188

STANDARD

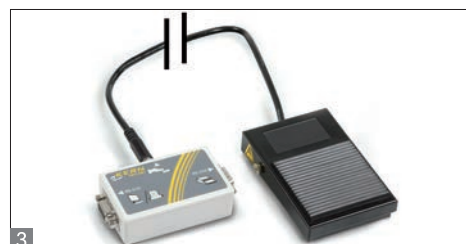


OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
								DKD KERN	€
KERN EMS 300-3	300	0,001	0,002	± 0,005	0,002	<b>A</b>	<b>260,-</b>	963-127	72,-
EMS 3000-2	3000	0,01	0,02	± 0,05	0,02	<b>B</b>	<b>240,-</b>	963-127	72,-
EMS 6K0.1	6000	0,1	0,1	± 0,3	0,2	<b>B</b>	<b>160,-</b>	963-128	88,-
EMS 12K0.1	12000	0,1	0,1	± 0,3	0,2	<b>B</b>	<b>205,-</b>	963-128	88,-
EMS 6K1	6000	1	1	± 3	2	<b>B</b>	<b>70,-</b>	963-128	88,-
EMS 12K1	12000	1	1	± 3	2	<b>B</b>	<b>95,-</b>	963-128	88,-

# Compact laboratory balance KERN PCD



02

## High-resolution precision balance with removable display for maximum flexibility

### Features

- **Laboratory balance with separate platform:** Ideal when working in the glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing results
- **Draught shield** standard for models with weighing plate size **A**, weighing space WxDxH 146x146x70 mm

### Technical data

- Backlit LCD display, digit height 21 mm
- Weighing plate dimensions, stainless steel, **A** Ø 105 mm, **B** WxD 160x160 mm, see enlarged picture
- Weighing plate material **A** Plastic, with conductive lacquer **B** Stainless steel
- Optional battery operation, 9 V block, not included, operating time up to 12 h. AUTO-OFF function to preserve the battery
- Overall dimensions WxDxH 165x245x142 mm
- Cable length of display device approx. 1,2 m
- Net weight approx. 1,805 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN PCD-A05S05, **€ 30,-**
- **Stand** to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, **€ 50,-**
- **Foot switch**, ideal when the application requires two free hands. TARE or PRINT function can be selected. Scope of delivery: foot switch, junction box, connection cable. For the PRINT function you will need the RS-232 interface cable, see page 182, KERN YKF-01, **€ 80,-**
- **Rechargeable battery pack internal**, operating time up to 48 h, charging time approx. 8 h. AUTO-OFF function to preserve the battery, can be switched off, KERN PCD-A04, **€ 50,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable printers** see page 177 ff.

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DAKkS Calibr. Certificate	
								DKD KERN	€
KERN PCD 250-3	250	0,001	0,002	± 0,005	0,002	<b>A</b>	<b>305,-</b>	963-127	72,-
KERN PCD 2500-2	2500	0,01	0,02	± 0,05	0,02	<b>B</b>	<b>295,-</b>	963-127	72,-
KERN PCD 10K0.1	10000	0,1	0,2	± 0,3	0,2	<b>B</b>	<b>220,-</b>	963-128	88,-





## The standard in the laboratory



**GLP/ISO record keeping** of weighing data, balance adjustment etc. with date, time and identification no. in combination with an appropriate KERN printer. Ideal for monitoring and documenting your processes in accordance with your quality management system



**Plus/minus weighing procedures**  
For example for checking piece weight, production control, for manufacturing packages of equal weight, etc. The deviation of the test items from a defined target weight will be displayed using the respective “+” and “-” symbols.



With the **recipe function** you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients





# Compact laboratory balance KERN 440

02



## The classic balance in the laboratory

### Features

- **Compact size**, practical for small spaces
- **Percentage determination**: makes it possible to store a given weight value (100 %) and to determine deviations from this target value
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space ØxH 90x40 mm

### Technical data

- Backlit LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel,
  - A** Ø 81 mm
  - B** Ø 105 mm
  - C** WxD 130x130 mm
  - D** WxD 150x170 mm, see enlarged picture
- Weighing plate material
  - A** Plastic, with conductive lacquer
  - B, C, D** Stainless steel

- Optional battery operation, 9 V block, not included. Operating time up to 12 h. AUTO-OFF function to preserve the battery
- Overall dimensions (without draught shield) WxDxH 165x230x80 mm
- Net weight approx. 1 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, **€ 30,-** for models with weighing plate size
  - A** KERN 440-210-002S05
  - B** KERN 440-330-002S05
  - C** KERN 440-450-002S05
  - D** KERN 440-530-002S05

- **Rechargeable battery pack internal**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, **€ 50,-**
- **Second display**, KERN YKD-A01, **€ 95,-**
- **Individual header data**: the free software KERN SHM-01 can be used to set up 4 header lines on the printout for printers YKN-01, 911-013 and YKB-01N
- **Hook for underfloor weighing** of hanging loads, standard, can be reordered, KERN 440-A01, **€ 25,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

### STANDARD

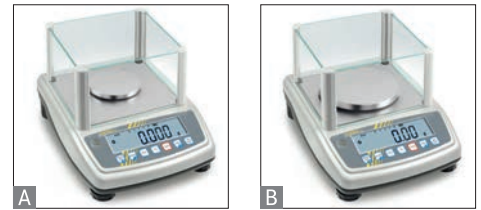


### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Option	
								DAkkS Calibr. Certificate	
KERN							DKD KERN	€	€
440-21A	60	0,001	0,001	± 0,003	0,002	<b>A</b>	<b>350,-</b>	963-127	72,-
440-33N	200	0,01	0,01	± 0,02	0,02	<b>B</b>	<b>290,-</b>	963-127	72,-
440-35N	400	0,01	0,01	± 0,03	0,02	<b>B</b>	<b>330,-</b>	963-127	72,-
440-35A	600	0,01	0,01	± 0,03	0,02	<b>B</b>	<b>365,-</b>	963-127	72,-
440-43N	400	0,1	0,1	± 0,2	0,2	<b>C</b>	<b>185,-</b>	963-127	72,-
440-45N	1000	0,1	0,1	± 0,2	0,2	<b>C</b>	<b>245,-</b>	963-127	72,-
440-47N	2000	0,1	0,1	± 0,2	0,2	<b>C</b>	<b>270,-</b>	963-127	72,-
440-49N	4000	0,1	0,1	± 0,3	0,2	<b>D</b>	<b>330,-</b>	963-127	72,-
440-49A	6000	0,1	0,1	± 0,3	0,2	<b>D</b>	<b>365,-</b>	963-128	88,-
440-51N	4000	1	1	± 2	2	<b>D</b>	<b>160,-</b>	963-127	72,-
440-53N	6000	1	1	± 2	2	<b>D</b>	<b>180,-</b>	963-128	88,-

# Compact laboratory balance KERN PFB



02

## Quick-displaying precision balance with user-friendly operation modes and EC type approval

### Features

- **Easy to use:** All primary functions have their own key on the keypad
- **Compact size,** practical for small spaces
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing results
- **Draught shield** standard for models with weighing plate size **A** and **B**. Weighing space WxDxH 158x143x64 mm

- **1 Separate second display** standard for models PFB 600-1M and PFB 6000-0M. Suitable for direct sales to the public. The verification value is the same as the readout. Large backlit LCD display, digit height 16 mm. Interface cable to the balance, cable length approx. 1 m, standard. Dimensions WxDxH 250x180x105 mm

### Technical data

- Backlit LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel,
  - A** Ø 80 mm,
  - B** Ø 120 mm,
  - C** WxD 155x145 mm, see enlarged picture

- Overall dimensions (without draught shield) WxDxH 200x190x87 mm
- Net weight approx. 2 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **2 Separate second display,** ideal for training and demonstration purposes in laboratories or industry, not permitted for direct sales to the public, KERN PFB-A08, **€ 115,-**
- **Bluetooth data interface** for wireless data transfer to PC, must be ordered at purchase, KERN PFB-A10, **€ 95,-**
- **Suitable printers** see page 177 ff.

### STANDARD



### OPTION



### FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
								MII KERN	€	DKD KERN	€
PFB 120-3	120	0,001	-	0,001	± 0,003	A	280,-	-	-	963-127	72,-
PFB 200-3	200	0,001	-	0,001	± 0,003	A	290,-	-	-	963-127	72,-
PFB 300-3	300	0,001	-	0,002	± 0,003	A	320,-	-	-	963-127	72,-
PFB 1200-2	1200	0,01	-	0,01	± 0,03	B	245,-	-	-	963-127	72,-
PFB 2000-2	2000	0,01	-	0,01	± 0,03	B	255,-	-	-	963-127	72,-
PFB 3000-2	3000	0,01	-	0,01	± 0,03	B	280,-	-	-	963-127	72,-
PFB 6K0.05	6000	0,05	-	0,05	± 0,15	C	250,-	-	-	963-128	88,-
PFB 6000-1	6000	0,1	-	0,1	± 0,3	C	220,-	-	-	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.											
PFB 600-2M	600	0,01	0,1	0,01	± 0,02	B	270,-	965-216	66,-	963-127	72,-
PFB 600-1M 1	600	0,1	0,1	0,1	± 0,1	B	340,-	965-216	66,-	963-127	72,-
PFB 6000-1M	6000	0,1	1	0,1	± 0,3	C	260,-	965-217	77,-	963-128	88,-
PFB 6000-0M 1	6000	1	1	1	± 1	C	330,-	965-217	77,-	963-128	88,-





## High-resolution precision balance with high resolution and large range of functions

### Features

- With its exceptionally large weighing ranges and readouts, this range offers a large pool of products to cover the most varied applications within the laboratory environment. They are therefore particularly suitable for heavy tare containers or large samples
- Stable weighing results thanks to the individual temperature compensation of the strain gauge measuring system which is set at the factory. It is therefore especially suitable for use in areas where there are temperature fluctuations
- The measuring system's exceptionally high resolution of 420,000 points ensures the highest level of accuracy with large weighing ranges. Almost unbeatable in this price category
- **Compact size**, practical for small spaces
- **Weighing sum memory** sums up individual weighing results

- **Glass draught shield**, standard for models with weighing plate size **A**. Removable metal cover with pipette opening. Weighing space ØxH 125x70 mm

### Technical data

- Backlit LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel, **A** Ø 80 mm, **B** Ø 135 mm, see enlarged picture
- Dimensions housing WxDxH 185x250x80 mm
- Net weight approx. 2,5 kg
- Permissible ambient temperature 10 °C / 30 °C

### Accessories

- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN PLE-A06, **€ 35,-**
- **Set for density determination** of liquids and solids with density  $\leq/\geq 1$ , similar to illustration. For additional information see page 214. For all models with readout [d] = 0,001 g, KERN ALT-A02, **€ 350,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** see page 177 ff.

#### STANDARD



#### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
								DKD KERN	€
PLE 420-3N	420	0,001	0,002	± 0,004	0,005	<b>A</b>	<b>450,-</b>	963-127	72,-
PLE 4200-2N	4200	0,01	0,02	± 0,04	0,05	<b>B</b>	<b>450,-</b>	963-127	72,-

# Compact laboratory balance KERN KB-N · KB-NM · KBJ



Compact precision balance with large weighing range, as well as EC type approval [M] and automatic internal adjustment

## Features

- **KERN KBJ with internal automatic adjustment:** Every time the balance is restarted it is adjusted automatically, which guarantees a high degree of accuracy and makes it independent of its location
- Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- **User guidance step by step** on display by Yes/No dialogue
- **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

- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space ØxH 90x40 mm

## Technical data

- Backlit LCD display, digit height 9 mm
- Weighing plate dimensions, stainless steel\*
  - A** Ø 81 mm, plastic, with conductive lacquer
  - B** WxD 130x130 mm\*
  - C** WxD 150x170 mm\*, see enlarged picture
- Overall dimensions without draught shield WxDxH 167x250x85 mm
- Net weight approx. 2 kg
- Permissible ambient temperature
  - KERN KB-N: 10 °C / 40 °C
  - KERN KB-NM, KBJ: 10 °C / 30 °C

## Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, **€ 30,-** for models with weighing plate size **A** KERN PCB-A02S05, **B** KERN PCB-A04S05 **C** KERN PCB-A05S05
- **Rechargeable battery pack internal**, 15 h, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- only KB-N: **Rechargeable battery pack external**, operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** see page 177 ff.

STANDARD



OPTION



FACTORY



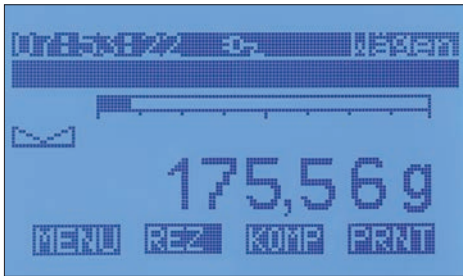
Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
								MII KERN	€	DKD KERN	€
<b>KB 120-3N</b>	120	0,001	-	0,001	± 0,003	<b>A</b>	<b>270,-</b>	-	-	963-127	72,-
<b>KB 240-3N</b>	240	0,001	-	0,001	± 0,003	<b>A</b>	<b>280,-</b>	-	-	963-127	72,-
<b>KB 360-3N</b>	360	0,001	-	0,002	± 0,005	<b>A</b>	<b>300,-</b>	-	-	963-127	72,-
<b>KB 1200-2N</b>	1200	0,01	-	0,01	± 0,03	<b>B</b>	<b>270,-</b>	-	-	963-127	72,-
<b>KB 2000-2N</b>	2000	0,01	-	0,01	± 0,03	<b>B</b>	<b>270,-</b>	-	-	963-127	72,-
<b>KB 2400-2N</b>	2400	0,01	-	0,01	± 0,03	<b>B</b>	<b>280,-</b>	-	-	963-127	72,-
<b>KB 3600-2N</b>	3600	0,01	-	0,02	± 0,05	<b>B</b>	<b>290,-</b>	-	-	963-127	72,-
<b>KB 10K0.05N</b>	10000	0,05	-	0,05	± 0,15	<b>C</b>	<b>280,-</b>	-	-	963-128	88,-
<b>KB 10000-1N</b>	10000	0,1	-	0,1	± 0,3	<b>C</b>	<b>260,-</b>	-	-	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.											
<b>KB 650-2NM</b>	650	0,01	0,1	0,01	± 0,03	<b>B</b>	<b>320,-</b>	965-216	66,-	963-127	72,-
<b>KB 6500-1NM</b>	6500	0,1	1	0,1	± 0,2	<b>C</b>	<b>320,-</b>	965-217	77,-	963-128	88,-
<b>1 Automatic internal adjustment</b>											
<b>KBJ 650-2NM *</b>	650	0,01	0,1	0,01	± 0,03	<b>B</b>	<b>690,-</b>	965-216	66,-	963-127	72,-

\* ONLY WHILE STOCKS LAST !



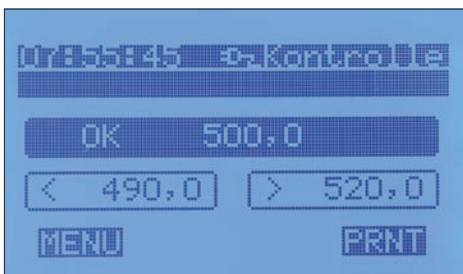


Laboratory specialist with clear graphics display for the most simple user guidance



**Large backlit graphic display**

All relevant information for the mode you are using is displayed clearly, at a glance and assigned to the keys are assigned on the keyboard overlay



**Weighing with tolerance range**

**(checkweighing):** Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading



**Convenient recipe weighing**

you can save up to 5 complete recipes in the memory with up to 7 components of each. The individual components of a mixture can be printed out clearly with their name, weight and grand total



**GLP/ISO record keeping** of weighing data, balance adjustment, etc. with date, time and identification no. etc. Ideal for monitoring and documenting your processes in accordance with your quality management system

# Compact laboratory balance KERN PKS



## Features

- Based on the KERN bestseller KB, many typical laboratory functions have been expanded to include a clear graphic screen, which shows the relevant information and makes it significantly easier to operate and read the weights off the display
- **Navigation pad** for super quick navigating through the menus
- **40 memories for each operation mode**
- Extensive print formatting – up to 20 lines with fixed and variable texts
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **High mobility**: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- **Ring-shaped draught shield** standard for models with weighing plate size **A**, weighing space ØxH 90x53 mm
- **Hook for underfloor weighing** of hanging loads standard

## Technical data

- Large backlit LCD graphic display, screen diagonal 3,2" (approx. 81 mm)
- Weighing plate dimensions, stainless steel,
  - A** Ø 81 mm
  - B** WxD 130x130 mm
  - C** WxD 150x170 mm, see enlarged picture
- Weighing plate material
  - A** Plastic, with conductive lacquer
  - B, C** Stainless steel
- Dimensions housing WxDxH 167x250x85 mm
- 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, **€ 30,-** for models with weighing plate size
  - A** KERN PCB-A02S05
  - B** KERN PCB-A04S05
  - C** KERN PCB-A05S05
- **Rechargeable battery pack external**, operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Rechargeable battery pack internal**, operating time up to 10 hours with backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **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

## Functions

- Capacity display, with ① - ②, ⑤ - ⑦, ⑨
- Dispensing aid (-/+), with ③, ④
- Net/gross display, permanent, with ①, ③ - ⑤, ⑧ - ⑨
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ① - ⑦
- Input of item or batch description, operator etc., with ① - ⑦
- 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 - ⑨
- Statistical function, with ①
- GLP printout, with ① - ⑨
- Individual printout configuration ① - ⑨

### STANDARD



### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
									DKD KERN	€
PKS 200-3	200	0,001	0,001	± 0,003	0,001	1,1	<b>A</b>	<b>420,-</b>	963-127	72,-
PKS 360-3	360	0,001	0,002	± 0,005	0,001	1,1	<b>A</b>	<b>430,-</b>	963-127	72,-
PKS 2000-2	2000	0,01	0,01	± 0,03	0,01	1,5	<b>B</b>	<b>430,-</b>	963-127	72,-
PKS 3600-2	3600	0,01	0,02	± 0,05	0,01	1,5	<b>B</b>	<b>440,-</b>	963-127	72,-
PKS 10K0.1	10000	0,1	0,1	± 0,3	0,1	1,7	<b>C</b>	<b>400,-</b>	963-128	88,-

ONLY WHILE STOCKS LAST !

For more information, please visit kern-sohn.com/en/PKS · Order hotline +49 [0] 7433 9933-0

Precision balances



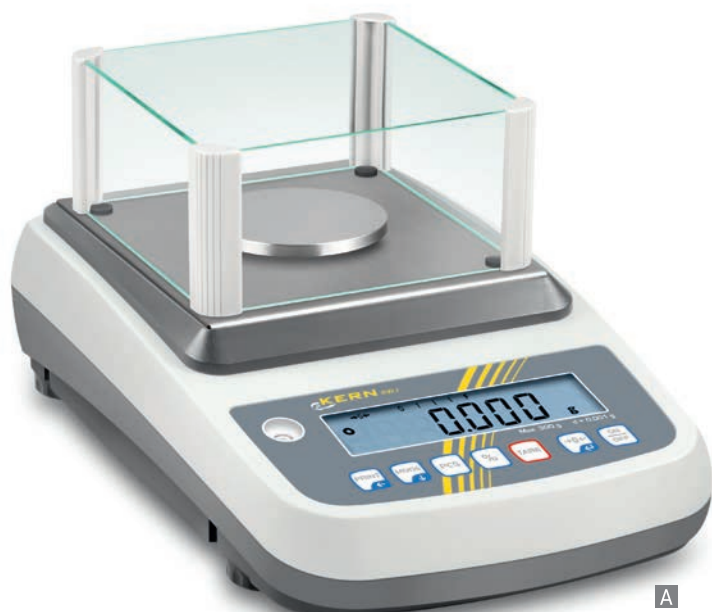
High-quality precision balance with automatic internal adjustment, also with EC type approval [M]



**Automatic internal adjustment:**  
Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing

**USB data interfaces** for transferring weighing data to the PC, printer, USB sticks, etc.





## Features

## Technical data

## Accessories

- **Easy to use:** All primary functions have their own key on the keypad
- **Automatic internal adjustment** time-controlled every 4 hours. Guarantees high degree of accuracy and makes the balance independent of its location
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Draught shield** standard for models with weighing plate size [Max] ≤ 600 g weighing space WxDxH 145x160x80 mm

- Large backlit LCD display, digit height 16,5 mm
- Weighing plate dimensions, stainless steel,
  - A** Ø 80 mm
  - B** Ø 135 mm
  - C** WxD 155x145 mm
- Overall dimensions WxDxH without draught shield 220x315x90 mm incl. draught shield 220x315x180 mm
- Permissible ambient temperature 5 °C / 40 °C

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN EWJ-A04S05, **€ 30,-**
- **Rechargeable battery pack internal**, operating time up to 15 h without backlight, charging time approx. 4 h, KERN KFB-A01, **€ 35,-**
- **USB interface kit** for bi-directional data exchange between balance and computer. Scope of delivery: USB cable, driver, Software Balance Connection, KERN DBS-A02, **€ 290,-**
- **RS-232/Ethernet adapter** to connect balances with an RS-232 interface to a network via Ethernet, for details see page 180, KERN YKI-01, **€ 390,-**
- **RS-232/WiFi adapte** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, for details see page 180, KERN YKI-03, **€ 780,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

### STANDARD

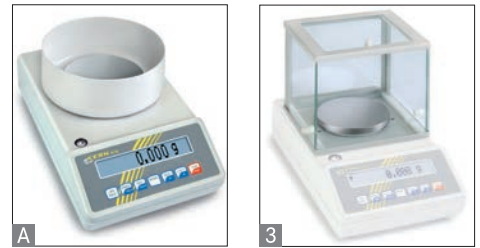
only with DBS-A02

### OPTION

### FACTORY

only EWJ-M

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Linearity	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DAkKS Calibr. Certificate	
KERN	g	g	g	g	g	A/B/C	€	MII KERN	€	DKD KERN	€
EWJ 300-3	300	0,001	-	-	± 0,003	A	465,-	-	-	963-127	72,-
EWJ 3000-2	3000	0,01	-	-	± 0,05	B	445,-	-	-	963-127	72,-
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.											
EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	B	410,-	965-216	66,-	963-127	72,-
EWJ 6000-1M	6000	0,1	1	5	± 0,3	C	400,-	965-217	77,-	963-128	88,-



All-rounder e.g. as precision balance in the laboratory or in harsh industrial applications, also with EC type approval [M]

**Features**

- Thanks to the **many typical laboratory functions**, such as, for example, recipe function, percentage determination, GLP record keeping, combined with the high level of precision, the KERN 572 is a reliable partner for day-to-day work in the laboratory.
- The **robust version**, typical industrial functions, such as piece-counting, vibration-free weighing and the large weighing ranges also make these balances ideal for all industrial applications, where a high level of precision is required

- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **The robust aluminium diecast housing** maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- only 572: **Ring-shaped draught shield** standard (Weighing plate **A**), weighing space ØxH 157x43 mm
- Hook for underfloor weighing, for models with [d] ≥ 0,01 g, can be retrofitted, KERN 572-A03, € 25,-
- **UNITS**: Further weighing units see the internet (only 572)

**Technical data**

- Large backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, **A** Ø 106 mm **B** Ø 150 mm **C** WxD 160x200 mm, see enlarged picture
- Overall dimensions WxDxH 180x310x130 mm
- Permissible ambient temperature  
KERN 572: 10 °C / 40 °C  
KERN 573: 10 °C / 30 °C

**Accessories**

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN 572-A02S05, € 35,-
- **2** only 572: **Rechargeable battery pack external**, operating time up to 25 h, charging time approx. 10 h, KERN KS-A01, € 180,-
- **3** **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 150x140x130 mm (only for models with weighing plate size **A**), KERN 572-A05, € 220,-
- **Suitable printers** see page 177 ff.

STANDARD

only with printer **1**

OPTION

**2**

FACTORY

only 573

Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Linearity g	Reproducibility g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DAkkS Calibr. Certificate	
									KERN	€	KERN	€
572-30	240	0,001	-	± 0,003	0,001	2,3	A	520,-	-	-	963-127	72,-
572-31	300	0,001	-	± 0,005	0,002	2,3	A	520,-	-	-	963-127	72,-
572-32	420	0,001	-	± 0,005	0,002	2,3	A	540,-	-	-	963-127	72,-
572-33	1600	0,01	-	± 0,03	0,01	2,3	B	480,-	-	-	963-127	72,-
572-35	2400	0,01	-	± 0,03	0,01	2,3	B	490,-	-	-	963-127	72,-
572-37	3000	0,01	-	± 0,05	0,02	2,3	B	490,-	-	-	963-127	72,-
572-39	4200	0,01	-	± 0,05	0,02	2,3	B	520,-	-	-	963-127	72,-
572-45	12000	0,05	-	± 0,15	0,05	2,7	C	490,-	-	-	963-128	88,-
572-55	20000	0,05	-	± 0,15	0,1	2,7	C	520,-	-	-	963-128	88,-
572-43	10000	0,1	-	± 0,3	0,1	2,7	C	480,-	-	-	963-128	88,-
572-49	16000	0,1	-	± 0,3	0,1	2,7	C	480,-	-	-	963-128	88,-
572-57	24000	0,1	-	± 0,3	0,1	2,7	C	490,-	-	-	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.

573-34NM	650	0,01	0,1	± 0,02	0,01	2,3	B	550,-	965-216	66,-	963-127	72,-
573-46NM	6500	0,1	1	± 0,2	0,1	2,7	C	550,-	965-217	77,-	963-128	88,-





Range of precision balances with enormous weighing ranges – ideal for heavy tare containers or large samples

Features

- **A New: PLJ 2000-3A high-quality milligram balance with enormous weighing range up to 2100 g** – ideal for large samples or heavy tare containers
- **2 KERN PLJ: Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing

- **3 KERN PLS: Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 188 ff.
- **Ergonomically optimised keypad** for left and righthanded users
- **Glass draught shield**, standard for models with weighing plate size **B**. Removable metal cover with pipette opening, weighing space ØxH 150x60 mm

Technical data

- Backlit LCD display, digit height 17 mm

- Weighing plate dimensions, stainless steel, **A** Ø 80 mm, **B** Ø 110 mm  
**C** Ø 160 mm, see enlarged picture  
**D** WxD 200x175 mm
- Overall dimensions WxDxH without draught shield: 210x340x100 mm with draught shield: 210x340x160 mm
- **4** KERN PLS/PLJ-F: Strain gauge
- **5** KERN PLS/PLJ-A: Force compensation
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN PLJ-A01S05, € 60,-
- **6 Hook for underfloor weighing** of hanging loads, not included, KERN PLJ-A02, € 30,-
- **Set for density determination** of liquids and solids with density  $\leq 1$ . The density, is indicated directly on all models with readout [d] = 0,001 g, KERN ALT-A02, € 350,- on all models with readout [d] = 0,01 g, KERN PLT-A01, € 350,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, € 390,-
- **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] g	Readout [d] g	Verific. value [e] g	Repro-ducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Net weight approx. kg	Price excl. of VAT ex works €	Options			
										Verification		DAkkS Calibr. Certificate	
										M II KERN	€	DKD KERN	€
PLS 420-3F	420	0,001	-	0,001	± 0,004	0,005	B	2,7	590,-	-	-	963-127	72,-
PLS 720-3A	720	0,001	-	0,001	± 0,002	0,005	B	4,6	850,-	-	-	963-127	72,-
PLS 1200-3A	1200	0,001	-	0,001	± 0,003	0,005	B	4,7	870,-	-	-	963-127	72,-
PLS 4200-2F	4200	0,01	-	0,01	± 0,04	0,05	C	3,0	590,-	-	-	963-127	72,-
PLS 6200-2A	6200	0,01	-	0,01	± 0,03	0,05	C	4,5	870,-	-	-	963-128	88,-
PLS 8000-2A	8200	0,01	-	0,01	± 0,04	0,01	C	4,7	1050,-	-	-	963-128	88,-
PLS 20000-1F	20000	0,1	-	0,1	± 0,4	0,5	D	3,5	590,-	-	-	963-128	88,-
PLJ 420-3F	420	0,001	-	0,001	± 0,003	0,005	B	3,5	700,-	-	-	963-127	72,-
PLJ 720-3A	720	0,001	-	0,001	± 0,002	0,001	B	4,9	990,-	-	-	963-127	72,-
PLJ 1200-3A	1200	0,001	-	0,001	± 0,003	0,005	B	5,0	1005,-	-	-	963-127	72,-
PLJ 2000-3A	2100	0,001	-	0,002	± 0,004	0,05	A	6,5	1700,-	-	-	963-127	72,-
PLJ 4200-2F	4200	0,01	-	0,02	± 0,04	0,05	C	3,8	690,-	-	-	963-127	72,-
PLJ 6200-2A	6200	0,01	-	0,01	± 0,03	0,01	C	5,3	990,-	-	-	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.													
PLJ 720-3AM	720	0,001	0,01	0,001	± 0,002	0,001	B	4,9	1050,-	965-216	66,-	963-127	72,-
PLJ 3000-2FM	3100	0,01	0,1	0,01	± 0,03	0,05	C	4,0	660,-	-	-	963-127	72,-
PLJ 6200-2AM	6200	0,01	0,1	0,01	± 0,03	0,01	C	5,2	1050,-	965-217	77,-	963-128	88,-

NEW New model

NEW



02



## The new standard in the laboratory with robust tuning fork weighing system

### Features

- **1** only PNJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- **2** only PNS: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **High-quality tuning fork measuring system** for steady weight values and continuous weighing
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Totalising** of pieces when counting

- **Compact size**, practical for small spaces
- Large stainless steel-weighing plate, removable
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed, for models with weighing plate size **A**, weighing space WxDxH 172x171x160 mm

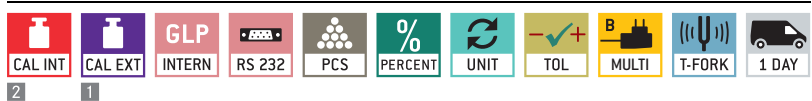
### Technical data

- Large LCD display, digit height 16,5 mm
- Weighing plate dimensions, stainless steel, **A** Ø 140 mm **B** WxD 190x190 mm, see enlarged picture
- Overall dimensions WxDxH for models with weighing plate size **A** 202x293x266 mm **B** 196x293x89 mm
- Net weight for models with weighing plate size **A** Net weight approx. 4,2 kg **B** Net weight approx. 3,5 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 PNJ-A01S05, **€ 50,-**
- **3** **Precious stones plate**, aluminium with practical spout, WxDxH 83x66x23 mm, KERN AEJ-A05, **€ 40,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **RS-232/Bluetooth adapter** to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., for details see page 180, KERN YKI-02, **€ 260,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, for details see page 180, KERN YKI-03, **€ 780,-**
- **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] g	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DAKKS Calibr. Certificate	
								M KERN	€	DKD KERN	€
<b>PNS 600-3</b>	620	0,001	-	-	± 0,004	<b>A</b>	<b>590,-</b>	-	-	963-127	72,-
<b>PNS 3000-2</b>	3200	0,01	-	-	± 0,02	<b>B</b>	<b>580,-</b>	-	-	963-127	72,-
<b>PNS 12000-1</b>	12000	0,1	-	-	± 0,2	<b>B</b>	<b>570,-</b>	-	-	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.											
<b>PNJ 600-3M</b>	620	0,001	0,01	0,1	± 0,004	<b>A</b>	<b>720,-</b>	965-201 (U)	110,-	963-127	72,-
<b>PNJ 3000-2M</b>	3200	0,01	0,1	0,5	± 0,02	<b>B</b>	<b>680,-</b>	965-216 (U)	66,-	963-127	72,-
<b>PNJ 12000-1M</b>	12000	0,1	1	5	± 0,2	<b>B</b>	<b>680,-</b>	965-217 (U)	77,-	963-128	88,-



## Process reliability thanks to automatic internal adjustment and EC type approval [M]

### Features

- **Automatic internal adjustment** in the case of temperature change  $\geq 3\text{ °C}$  and time-controlled every 3 hours
- **Draught shield** standard (on all models with readout [d] = 0,001 g). Weighing space WxDxH 140x140x65 mm

### PLJ -C:

- **Force compensation** weighing principle
- **Alibi memory:** paperless archive of weighing results, see page 215
- **Internal memory** for up to 999 weighing results, 1000 items, 100 container weights, 100 users
- **USB interface** for transferring weighing data to the PC, printer, USB sticks etc.

### PLJ -G:

- **Strain gauge** weighing principle
- Rechargeable battery pack internal, standard, operating time up to 35 h, charging time approx. 12 h

### Technical data

- Backlit LCD display  
PLJ-C: digit height 17 mm  
PLJ-G: digit height 19 mm
- Weighing plate dimensions, stainless steel, WxD  
A 128x128 mm  
B 195x195 mm, see enlarged picture
- Overall dimensions WxDxH without draught shield 206x335x85 mm incl. draught shield 206x335x157 mm
- Net weight approx. 3,6 kg (incl. draught shield approx. 4 kg)
- Permissible ambient temperature 15 °C / 30 °C

### Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN ALS-A02S05, € 35,-
- **Set for density determination** of liquids and solids with density  $\geq 1$ , only suitable for models with readout [d] = 0,001 g. The density is indicated directly on the display, sim. to illustration. For interesting facts about density determination see page 214, KERN PLS-A01, € 530,-
- only PLJ-C: **WLAN interface** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smart-phones, must be ordered at purchase, please ask for delivery time, KERN PLJ-A06, € 135,-
- only PLJ-C: **Alibi memory software** for viewing and saving data from the alibi memory onto a PC connected to the system, KERN PET-A16, € 300,-
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

OPTION FACTORY

CAL INT	ALIBI	RS 232	USB	GLP INTERN	GLP PRINTER	PCS	RECIPE	UNIT	TOL	MOVE	UNDER	ACCU	MULTI	DMS	FORCE	1 DAY WARRANTY	3 YEARS WARRANTY	DAKKS	WLAN	M
only PLJ-C		only PLJ-C		only PLJ-C														only PLJ-C		

Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DAkkS Calibr. Certificate	
									MU KERN	€	DKD KERN	€
PLJ 300-3CM	360	0,001	0,01	0,001	$\pm 0,004$	0,005	A	710,-	965-216	66,-	963-127	72,-
PLJ 600-3CM	600	0,001	0,01	0,002	$\pm 0,004$	0,005	A	750,-	965-216	66,-	963-127	72,-
PLJ 700-3CM	750	0,001	0,01	0,02	$\pm 0,004$	0,005	A	730,-	965-216	66,-	963-127	72,-
PLJ 600-2GM	600	0,01	0,1	0,02	$\pm 0,02$	0,05	A	540,-	965-216	66,-	963-127	72,-
PLJ 3000-2CM	3500	0,01	0,1	0,01	$\pm 0,04$	0,05	B	710,-	965-216	66,-	963-127	72,-
PLJ 6000-1GM	6000	0,1	1	0,2	$\pm 0,2$	0,5	B	540,-	965-217	77,-	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.

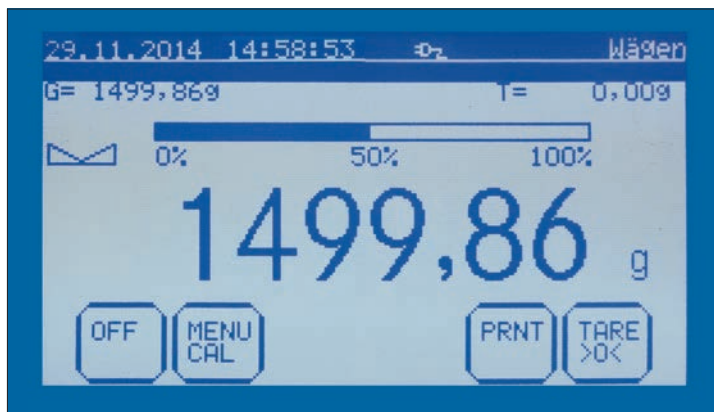




**Internal memory**

- 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

Touchscreen laboratory and industrial scale with enormous range of functions



Display at full size, operating mode weighing

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

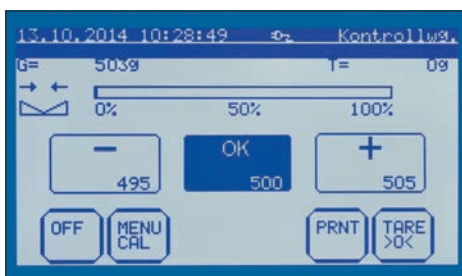
**Advantages:**

- 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



**80 memories for each mode**

e.g. for Checkweighing, PRE-TARE, reference weight, target value when dispensing, item descriptions, user name, weights for tare containers, etc. Easy to enter using the large-scale keypad



**Weighing with tolerance range**

**(checkweighing):** Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading



**Convenient recipe weighing**

you can save up to 99 complete recipes in the memory with up to 10 components each. The individual components of a mixture can be printed out clearly with their name, weight and grand total



# Precision balance KERN PKT



02

## Features

- **Convenient recipe-weighing:** the recipes can be generated easily in an Excel list in the PC and transferred to the balance using the RS-232 interface. Alternatively, the recipes can also be entered directly using the keypad. 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
- **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.
- **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
- **Rapid function** for shortened stabilisation time with reduced readout
- **Ring-shaped draught shield** standard for models with weighing plate size **A**, weighing space ØxH 157x57 mm
- **Hook for underfloor weighing**, standard on all models with readout [d] = 0,001 g

## Technical data

- Large backlit LCD touch display, digit height 15 mm, screen diagonal 4,3" (approx. 109 mm), WxH 91x54 mm
- Weighing plate dimensions, stainless steel, **A** Ø 106 mm, **B** Ø 150 mm
- **C** WxD 160x200 mm, see enlarged picture
- Overall dimensions WxDxH 180x310x90 mm
- Permissible ambient temperature 10 °C / 40 °C

## Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN 572-A02S05, **€ 35,-**
- **Rechargeable battery pack external**, operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Large glass draught shield** with 3 sliding doors. Weighing space WxDxH 150x140x130 mm (only for models with weighing plate size **A**), KERN 572-A05, **€ 220,-**
- **Set for density determination** of liquids and solids with density  $\leq/\geq 1$ , **2** for models with weighing plate size **A**, KERN YDK-01, **€ 205,-**, **3** for models with weighing plate size **B**, KERN YDK-02, **€ 310,-**
- **RS-232/Ethernet adapter**, for details see page 180, KERN YKI-01, **€ 390,-**
- **RS-232/USB adapter**, for details see page 181, KERN AFH 12, **€ 85,-**
- **Hook for underfloor weighing**, for models with [d]  $\geq 0,01$  g, can be retrofitted, KERN 572-A03, **€ 25,-**
- **Suitable printers** see 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 **A, B**
- ⑪ Rapid function

## 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
- 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

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
									DKD KERN	€
KERN PKT 300-3	300	0,001	0,002	± 0,005	0,001	2,3	<b>A</b>	<b>740,-</b>	963-127	72,-
KERN PKT 420-3	420	0,001	0,002	± 0,005	0,001	2,3	<b>A</b>	<b>770,-</b>	963-127	72,-
KERN PKT 3000-2	3000	0,01	0,02	± 0,05	0,01	2,3	<b>B</b>	<b>740,-</b>	963-127	72,-
KERN PKT 4200-2	4200	0,01	0,02	± 0,05	0,01	2,3	<b>B</b>	<b>770,-</b>	963-127	72,-
KERN PKT 12K0.05	12000	0,05	0,05	± 0,15	0,05	2,7	<b>C</b>	<b>630,-</b>	963-128	88,-
KERN PKT 16K0.1	16000	0,1	0,1	± 0,3	0,1	2,7	<b>C</b>	<b>630,-</b>	963-128	88,-
KERN PKT 24K0.1	24000	0,1	0,1	± 0,3	0,1	2,7	<b>C</b>	<b>650,-</b>	963-128	88,-

! ONLY WHILE STOCKS LAST !

For more information, please visit kern-sohn.com/en/PKT · Order hotline +49 [0] 7433 9933-0

Precision balances

35



The classic balance with robust tuning fork measuring system



**GLP/ISO record keeping** of weighing data, balance adjustment, etc. with date, time and identification no. etc. Ideal for monitoring and documenting your processes in accordance with your quality management system



**Percentage determination:** makes it possible to store a given weight value (100 %) and to determine deviations from this target value



**Weighing with tolerance range (checkweighing):** a visual signal helps with portioning, dispensing or grading

# Precision balances KERN EW-N · EG-N



02

## Features

- 1 only EG-NM: **Internal adjustment** by rotary knob on the side. Guarantees high degree of accuracy and makes the balance independent of its location
- 2 only EW-NM: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- Capacity display:** A bar lights up to show how much of the weighing range is still available
- Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Totalising** of pieces when counting
- Draught shield** standard for models with weighing plate size A. Removable metal cover with pipette opening, weighing space WxDxH 158x130x78 mm

## Technical data

- Large LCD display, digit height 17 mm
- Weighing plate dimensions, stainless steel,
  - A Ø 118 mm, see enlarged picture
  - B WxD 170x142 mm
  - C WxD 180x160 mm
- Overall dimensions (without draught shield) WxDxH
  - A, B 182x235x75 mm
  - C 192x265x87 mm
- Net weight approx. 1,3 kg
- Permissible ambient temperature 10 °C / 30 °C

## Accessories

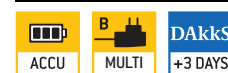
- Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items. For models with weighing plate size
  - A, B KERN EG-A05S05, € 50,-
  - C KERN EG-A09S05, € 50,-
- Precious stones plate**, aluminium with practical spout, WxDxH 83x66x23 mm, KERN AEJ-A05, € 40,-

- Rechargeable battery pack internal**, operating time up to 32 h without backlight, charging time approx. 12 h. AUTO-OFF function to preserve the battery, can be switched off. For models with weighing plate size
  - A, B KERN EG-A04, € 110,-
  - C KERN EG-A06, € 110,-
- Large glass draught shield** with 3 sliding doors for easy access to the items being weighed, weighing space WxDxH 150x140x130 mm, can be retrofitted for models with weighing plate size A, KERN EG-A03, € 235,-
- Loop for underfloor weighing**, not included, for models with weighing plate size
  - A, B KERN EG-A07, € 40,-
  - C KERN EG-A08, € 40,-
- RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, € 390,-
- 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] g	Readout [d] g	Verification value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
								M KERN	€	DKD KERN	€
EW 220-3NM	220	0,001	-	0,001	± 0,002	A	620,-	-	-	963-127	72,-
EW 420-3NM	420	0,001	-	0,001	± 0,003	A	690,-	-	-	963-127	72,-
EW 620-3NM	620	0,001	-	0,001	± 0,003	A	770,-	-	-	963-127	72,-
EW 820-2NM	820	0,01	-	0,01	± 0,01	B	540,-	-	-	963-127	72,-
EW 2200-2NM	2200	0,01	-	0,01	± 0,01	C	660,-	-	-	963-127	72,-
EW 4200-2NM	4200	0,01	-	0,01	± 0,02	C	740,-	-	-	963-127	72,-
EW 6200-2NM	6200	0,01	-	0,01	± 0,03	C	810,-	-	-	963-128	88,-
EW 12000-1NM	12000	0,1	-	0,1	± 0,2	C	635,-	-	-	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.

EG 220-3NM	220	0,001	0,01	0,001	± 0,002	A	760,-	965-216 (U)	66,-	963-127	72,-
EG 420-3NM	420	0,001	0,01	0,001	± 0,003	A	830,-	965-216 (U)	66,-	963-127	72,-
EG 620-3NM	620	0,001	0,01	0,001	± 0,004	A	930,-	965-201 (U)	110,-	963-127	72,-
EG 2200-2NM	2200	0,01	0,1	0,01	± 0,01	C	820,-	965-216 (U)	66,-	963-127	72,-
EG 4200-2NM	4200	0,01	0,1	0,01	± 0,02	C	880,-	965-216 (U)	66,-	963-127	72,-





02



Multifunctional laboratory balance with single-cell weighing system and EC type approval [M]



only PBS: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price



**Simple recipe weighing and documenting** with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight



**Percentage determination:** makes it possible to store a given weight value (100 %) and to determine deviations from this target value





**Features**

- **1** only PBJ: **Automatic internal adjustment** in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- **Metal housing:** robust and sturdy
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading
- **Totalising** of individual weighing results
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- **Automatic data output to the PC/printer** each time the balance is steady
- **2** **Draught shield** standard, on all models with readout [d] = 0,001 g, weighing space WxDxH 180x193x87 mm

**Technical data**

- Large backlit LCD display, digit height 14 mm
- Weighing plate dimensions, stainless steel, WxD
  - A** 108x105 mm
  - B** 170x180 mm, see enlarged picture
- Overall dimensions (without draught shield) WxDxH 209x322x78 mm
- Net weight approx. 3 kg
- Permissible ambient temperature 10 °C / 30 °C

**Accessories**

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, **€ 35,-** for models with weighing plate size
  - A** KERN PBS-A01S05
  - B** KERN PBS-A02S05

**5** Single-cell advanced technology:

- **Fully automatic manufactured weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time: 3 sec**
- **Shock proof construction**
- **High corner load performance**

• **4** **Set for density determination** for models with weighing plate size

- A** KERN PBS-A04, **€ 1580,-**
- B** KERN PBS-A03, **€ 1580,-**

For interesting facts about density determination 214

• **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**

• **Suitable test weights**, also with calibration certificate see page 188

• **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

OPTION

FACTORY

only PBJ

Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DAkkS Calibr. Certificate	
KERN								KERN	€	KERN	€	
PBS 620-3M	620	0,001	-	-	0,001	± 0,002	<b>A</b>	<b>1360,-</b>	-	-	963-127	72,-
PBS 4200-2M	4200	0,01	-	-	0,01	± 0,02	<b>B</b>	<b>1150,-</b>	-	-	963-127	72,-
PBS 6200-2M	6200	0,01	-	-	0,01	± 0,02	<b>B</b>	<b>1380,-</b>	-	-	963-128	88,-
PBS 8200-1M *	8200	0,1	-	-	0,1	± 0,2	<b>B</b>	<b>490,-</b>	-	-	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.												
PBJ 620-3M	620	0,001	0,01	0,1	0,001	± 0,002	<b>A</b>	<b>1590,-</b>	965-201	110,-	963-127	72,-
PBJ 4200-2M	4200	0,01	0,1	0,5	0,01	± 0,02	<b>B</b>	<b>1420,-</b>	965-216	66,-	963-127	72,-
PBJ 6200-2M	6200	0,01	0,1	1	0,01	± 0,02	<b>B</b>	<b>1720,-</b>	965-202	110,-	963-128	88,-
PBJ 8200-1M	8200	0,1	1	5	0,1	± 0,2	<b>B</b>	<b>1410,-</b>	965-217	77,-	963-128	88,-

**!** \* ONLY WHILE STOCKS LAST

Price reduction

02



Robust laboratory and industrial precision scale for heavy items, with EC type approval [M]

Features

- **2** only PEJ: **Automatic internal adjustment**
- **3** only PES: **Adjusting program CAL** for quick setting of the balance accuracy
- **Metal housing:** robust and sturdy
- **Weighing with tolerance range (checkweighing):** Input of 2 upper and 2 lower limit values through 4 arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- **1 Draught shield** standard on all models with readout [d] = 0,001 g, weighing space WxDxH 170x150x100 mm. Removable metal cover with pipette opening
- **Underfloor weighing:** load support with hook on the underside of the balance

Technical data

- Fluorescent display, bright with high contrast, digit height 13 mm
- Weighing plate dimensions, stainless steel, WxD
  - A** 140x120 mm
  - B** 200x200 mm, see enlarged picture
  - C** 250x220 mm
- Overall dimensions (without draught shield) WxDxH
  - A** 220x330x93 mm
  - B** 220x333x93 mm
  - C** 260x333x110 mm
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items (not for KERN PES 31000-1M), KERN PES-A04S05, **€ 55,-**
- only PES: **Rechargeable battery pack internal**, operating time up to 6 h, charging time approx. 15 h (internal charging via mains adapter), KERN PES-A01, **€ 610,-**
- **Relay output** with 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, **€ 480,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable printers** see page 177 ff.

STANDARD

CAL INT CAL EXT RS 232 PRINTER GLP PCS RECIPE PERCENT UNIT TOL UNDER 230 V T-FORK 1 DAY 3 YEARS WARRANTY

OPTION

MULTI DAkkS +3 DAYS

FACTORY

SWITCH ACCU +3 DAYS

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Reproducibility	Linearity	Net weight approx.	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DAkkS Calibr. Certificate	
KERN	g	g	g	g	g	kg		€	MO KERN	€	DKD KERN	€
PES 620-3M	620	0,001	-	0,001	± 0,003	4	A	1280,-	-	-	963-127	72,-
PES 2200-2M	2200	0,01	-	0,01	± 0,02	4	B	830,-	-	-	963-127	72,-
PES 4200-2M	4200	0,01	-	0,01	± 0,02	4	B	980,-	-	-	963-127	72,-
PES 6200-2M	6200	0,01	-	0,01	± 0,03	4	B	1210,-	-	-	963-128	88,-
PES 15000-1M	15000	0,1	-	0,1	± 0,2	4	B	1190,-	-	-	963-128	88,-
PES 31000-1M	31000	0,1	-	0,1	± 0,4	8,9	C	1960,-	-	-	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.

PEJ 620-3M	620	0,001	0,01	0,001	± 0,003	6	A	1480,-	965-201	110,-	963-127	72,-
PEJ 2200-2M	2200	0,01	0,1	0,01	± 0,02	6	B	1040,-	965-216	66,-	963-127	72,-
PEJ 4200-2M	4200	0,01	0,1	0,01	± 0,02	6	B	1190,-	965-216	66,-	963-127	72,-

# Premium precision balance KERN PET

PREMIUM



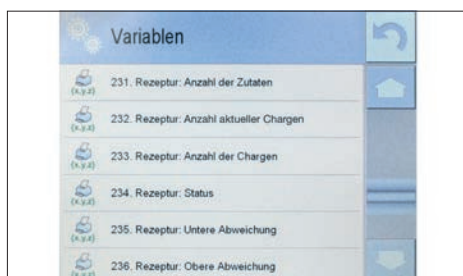
KERN PET [d] = 0,001 g



KERN PET [d] = 0,01 g

02

Premium touchscreen precision balance with the complete range of functions for demanding processes



**Individual print formats:** Printouts can be individually adjusted depending on operating mode, application or your own requirements, directly at the balance or the PC. In this way the data related to these processes is documented accurately, efficiently and clearly



**Convenient recipe-weighing:** complete recipes with all recipe ingredients and associated target values, names, tolerances, tare weights etc. can be stored. 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

## Modes

- ① Weighing
- ② Piece counting
- ③ Checkweighing
- ④ Dispensing
- ⑤ Percentage determination
- ⑥ Density
- ⑦ Animal weighing
- ⑧ Recipe weighing
- ⑨ Statistics
- ⑩ Pipette calibration
- ⑪ Differential weighing
- ⑫ Statistical Quality Control (SQC)

## Funcitons

- Capacity display, with ① - ⑫
- Dispensing assistance, with ④, ⑤
- Net/Gross display, with ① - ⑫
- Variable reference quantity, with ②
- Automatic reference optimization, with ②
- Tare deduction automatic, with ① - ⑫
- Entering of item or batch description, operator etc., with ① - ⑫
- Freely programmable weighing unit, with ① - ⑫
- Date/time, with ① - ⑫
- Statistical function, as stand-alone application
- GLP printout, with ① - ⑫
- Individual formatting of print-outs, with ① - ⑫





### 3 rapid assignment keys

for frequently recurring applications, functions, settings or memory contents



### 2 infrared sensors

to initiate functions such as TARE, zeroing, for carrying out, starting or aborting adjustment, calling up database or menu and much more, without having to touch the balance – just give it a wave!

### Customised formatting of printout

a range of printouts which can be edited easily at the PC

### High level of connectivity

- 1 x Ethernet
- 2 x RS-232
- 2 x USB
- e.g. for data exchange or connecting barcode or RFID scanners
- Digital I/O (4 in/4 out) e.g. to control machines and plants
- 1 x additional display
- 1 x WLAN (selected models)



### Individual user settings can be stored

- User name and number
- Password
- Authorisations
- Menu language (DE, GB, FR, IT, ES, PL)
- User profiles
- Additional guest mode for users without user log-in

### Alibi memory

Electronic archiving of weighing results, see also page 214



### Statistical function

for statistical analysis of series of measurements. The graphic display of measurements can be used by the operator to check and evaluate their results

### Intuitive use, increases efficiency and saves costs

Easy capture of article data at the PC, call up of items on the balance using the connected barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory.

### Innovative touchscreen

Large backlit and touch-sensitive LCD screen with digit height 17 mm, screen size 5.7" (approx. 145 mm), WxH 115x86 mm. Dimensions of display device WxDxH 208x71x150 mm.

### Convenient recipe-weighing

complete recipes with all recipe ingredients and associated nominal values, names, tolerances, tare weights etc. can be stored. 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. Recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc. (Multiplier function)

### Enormous database

with optional software KERN PET-A01, this can be filled in easily at the PC. Particularly beneficial when counting a large number of individual items, as part of a stocktaking, for checkweighing, recording recipes etc.

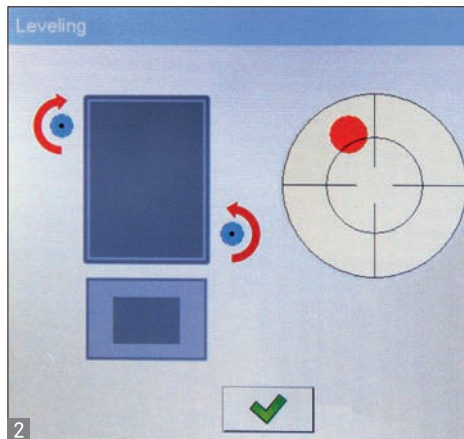


### Data exchange via USB

to download software updates, export recipes or weighing results, export/import databases, balance settings, data exchange between individual balances and much more



# Premium precision balance KERN PET



02

## Features

- **Intuitive operation, increases efficiency and saves costs:** Easy entering of item data at the PC, call up of items on the balance using the connected **1** barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory
- **Individual user settings can be stored**  
User name and number
  - Password
  - Menu language
  - User profile
  - Additional guest mode for users without log-in
  - Authorisations, e.g. capture or modification of a recipe only with authorisation, recipe weighing can be carried out by the user
- **Best-before dates** can be stored and printed for each item
- **Difference determination:** Weighing a sample before and after a machining process and automatic output of the difference value
- **Multiplier function:** recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc.
- **Enormous database (1 GB)** for thousands of weighing results, items, recipes, recipe ingredients, container weights, user data etc.
- **Alibi memory:** electronic archiving of weighing results, see also page S. 214

- **2 Electronic level indicator** continuously checks the position of the balance, sounds an alarm when the device is out of balance and gives visual instructions on how to correct the situation
- **3 High level of process reliability:** you can define limit values for selected parameters, such as, for example, temperature, levelling, minimum load, adjustment, etc. When the value falls outside these limits, a warning message will be issued and this can be stored with the measuring result
- **Draught shield** standard for models with weighing plate size **A**, weighing space WxDxH 140x140x65 mm

## Technical data

- Backlit and touch-sensitive LCD display with digit height 21 mm, screen diagonal 5,7" (approx. 145 mm), WxH 115x86 mm. Dimensions of display device WxDxH 215x156x71 mm
- Hook for underfloor weighing standard
- Weighing plate dimensions, stainless steel, WxD
  - A** 128x128 mm
  - B** 195x195 mm
- Overall dimensions WxDxH
  - A** 431x221x168 mm
  - B** 431x221x99 mm
- Permissible ambient temperature 15 °C / 35 °C

## Accessories

- **RS-232 barcode scanner**, hand-held version, dimensions WxDxH 152x84x63 mm, for details see page 184, KERN PET-A05, **€ 350,-**
- **USB barcode scanner**, hand-held version, dimensions WxDxH 152x84x63 mm, for details see page 184, KERN PET-A09, **€ 350,-**
- **USB keyboard** for easy capture of items, descriptions etc., dimensions WxDxH 440x128x24 mm, for details see page 185, KERN PET-A06, **€ 45,-**
- **Second display**, dimensions WxDxH 150x33x80 mm, for details see page 185, KERN PET-A03, **€ 210,-**
- **Direct thermal label printer**, software for easy editing of (adhesive) labels included, for details see page 184, KERN PET-A13, **€ 980,-**
- **Thermal transfer and direct thermal label printer**, software for easy editing of (adhesive) labels included, for details see page 184, KERN PET-A14, **€ 1000,-**
- **Software for database management**, for convenient maintenance of item data at the PC. Data transfer to the balance using the interface cable, for details see page 184, KERN PET-A01, **€ 300,-**
- **Set for density determination** of liquids and solids  $\leq/\geq 1$ , for details see page 183, KERN YDB-03, **€ 520,-**

STANDARD



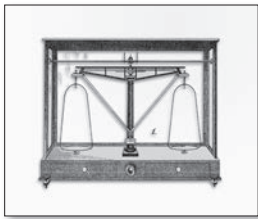
OPTION FACTORY

Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification		DAkkS-Calibr. Certificate	
							M D KERN	€	DKD KERN	€
PET 600-3M	600	0,001	0,01	0,02	A	2500,-	965-216	66,-	963-127	72,-
PET 1000-3M	1000	0,001	0,01	0,02	A	2800,-	965-216	66,-	963-127	72,-
PET 2500-2M	2500	0,01	0,1	0,5	B	2400,-	965-216	66,-	963-127	72,-
PET 6000-2M	6000	0,01	0,1	0,5	B	2600,-	965-217	77,-	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.

# 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**  
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 **[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

 **Calibration hotline**  
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 **Fax Order**  
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