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PRECISION BALANCES

Here you'll find a complete summary of the KERN laboratory scales series and their positioning within the precision scales segment on the basis of application, price-performance ratio and functional volume

KERN Basic laboratory balances

are used in laboratory applications mostly as single-user balances for sample preparation, etc. They are fitted with all useful laboratory functions which will support the user in a helpful way. With their strain gauge measuring principle, they are used anywhere where individual weighings are carried out, such as, for example, checkweighing. These devices are often connected to printers or local PCs using the standard, integrated RS-232 data interface.

KERN Basic standard laboratory balances

offer you all the tools you would need for effective and accurate work in your laboratory environment. All important laboratory functions such as a recipe weighing function or data interfaces are on board at all times. But above all, the high-quality measuring principles of these balances such as force compensation or tuning fork measuring principle, allow them to be used in dosing procedures with very small weight changes and rapid display. In addition these balances are often fitted with automatic internal adjustment, which means the balance can be used in any location.

KERN premium laboratory balances

are right at the top of the precision balance segment. The numerous equipment features of the standard balances are complemented by high-quality materials with robust, sturdy construction, high-quality, high-performance weighing systems, optimised operating sequences, speed benefits.

Tip: Together with the innovative KERN EasyTouch app, a premium laboratory balance supports its users in their typical workflows and increases the range of functions of the balance. In this way these scales can be operated more efficiently and quickly than devices from other quality classes. In particular, these balances are used in demanding laboratory applications and anywhere where the environmental conditions are not ideal because of vibrations or other interference, but where, naturally, the balance is expected to provide accurate weighing results. Another field of application for these balances is the pharmaceutical industry, which is subject to particularly demanding requirements such as, for example, the GLP (Good Laboratory Practice).



Digital weighing data – with KERN EasyTouch

Discover KERN EasyTouch - innovative software, which combines the precision of our tried and tested KERN balances with the versatility of Windows or Android environments.

What benefits does KERN EasyTouch offer?

- Digital processing and saving of weighing data directly in the process
- Greater efficiency through streamlined workflows
- Increased safety for critical processes
- Unlimited master data memory
- Central, secure data storage (tamper-proof and traceable at any time)
- Interfaces to Excel, ERP, PPS and CRM systems

This is how KERN EasyTouch works:

1. Collection of weighing and measuring data using an appropriate measuring device
2. Transfer, saving and processing in relation to master data such as item data, order data, batch data and user data
3. Output or transfer of data to connected systems or peripheral devices

Tip: Turn your balance into a powerful weighing system!

Using the KERN EasyTouch App even a simple single balance can be made into a powerful weighing system, which offers a range of functions. To do this you simply have to install the KERN EasyTouch App on your PC or tablet (Windows® or Android™), connect the balance (either with cable or wireless), activate the App and you will be able to control your balance using your PC or tablet straightaway (see page 136).


This symbol will show you which balances are compatible with EasyTouch



Quick-finder Precision Balances

Readability [d] g	Weighing capacity [Max] g	Model	Page	M	CAL INT	CAL EXT	RS 232	GLP INTERN	GLP PRINTER	RECIPE	TOL	BATT	ACCU
KERN													
For an explanation on the pictos, see the front flap													
0,001	120	PFB 120-3	25	●	●	●	●	●	●	●	●	●	○
0,001	200	PCB 200-3	26	●	○	●	●	●	●	●	●	●	○
0,001	200	PFB 200-3	25	●	●	●	●	●	●	●	●	●	○
0,001	220	EW 220-3NM	34	●	●	●	●	●	●	●	●	●	○
0,001	220	EG 220-3NM	34	○	●	●	●	●	●	●	●	●	○
0,001	240	572-30	31	●	○	●	●	●	●	●	●	●	○
0,001	250	PCD 250-3	24	●	●	●	●	●	●	●	●	●	○
0,001	300	PFB 300-3	25	●	●	●	●	●	●	●	●	●	○
0,001	300	EWJ 300-3	30	●	●	●	●	●	●	●	●	●	○
0,001	300	EWJ 300-3H	30	●	●	●	●	●	●	●	●	●	○
0,001	300	572-31	31	●	○	●	●	●	●	●	●	●	○
0,001	320	PDS 300-3	38	1200,-	●	●	●	●	●	●	●	●	○
0,001	320	PDT 300-3	38	1400,-	●	●	●	●	●	●	●	●	○
0,001	350	PCD 300-3	24	●	●	●	●	●	●	●	●	●	○
0,001	360	PCB 300-3	26	●	○	●	●	●	●	●	●	●	○
0,001	420	572-32	31	●	○	●	●	●	●	●	●	●	○
0,001	420	PLS 420-3F	32	●	●	●	●	●	●	●	●	●	○
0,001	420	PLJ 420-3F	32	●	●	●	●	●	●	●	●	●	○
0,001	420	EW 420-3NM	34	●	●	●	●	●	●	●	●	●	○
0,001	420	EG 420-3NM	34	○	●	●	●	●	●	●	●	●	○
0,001	600	PFB 600-3	25	●	●	●	●	●	●	●	●	●	○
0,001	600	EWJ 600-3	30	●	●	●	●	●	●	●	●	●	○
0,001	620	PNS 600-3	33	●	●	●	●	●	●	●	●	●	○
0,001	620	PNJ 600-3M	33	○	●	●	●	●	●	●	●	●	○
0,001	620	EW 620-3NM	34	●	●	●	●	●	●	●	●	●	○
0,001	620	EG 620-3NM	34	○	●	●	●	●	●	●	●	●	○
0,001	620	PES 620-3M	36	●	●	●	●	●	●	●	●	●	○
0,001	620	PBS 620-3M	37	●	●	●	●	●	●	●	●	●	○
0,001	620	PEJ 620-3M	36	○	●	●	●	●	●	●	●	●	○
0,001	620	PBJ 620-3M	37	○	●	●	●	●	●	●	●	●	○
0,001	620	PDS 600-3	38	1740,-	●	●	●	●	●	●	●	●	○
0,001	620	PDT 600-3	38	1940,-	●	●	●	●	●	●	●	●	○
0,001	720	PLS 720-3A	32	●	●	●	●	●	●	●	●	●	○
0,001	720	PLJ 720-3A	32	●	●	●	●	●	●	●	●	●	○
0,001	1020	PDS 1000-3	38	2100,-	●	●	●	●	●	●	●	●	○
0,001	1020	PDT 1000-3	38	2300,-	●	●	●	●	●	●	●	●	○
0,001	1200	PLS 1200-3A	32	●	●	●	●	●	●	●	●	●	○
0,001	1200	PLJ 1200-3A	32	●	●	●	●	●	●	●	●	●	○
0,001	2100	PLJ 2000-3A	32	●	●	●	●	●	●	●	●	●	○
0,01	300	PCB 300-2	26	●	○	●	●	●	●	●	●	●	○
0,01	600	PFB 600-2	25	●	●	●	●	●	●	●	●	●	○
0,01	600	PCJ 600-2M	28	○	●	○	●	●	●	●	●	●	○
0,01	600	EWJ 600-2SM	30	○	●	●	●	●	●	●	●	●	○
0,01	600	EWJ 600-2M	30	○	●	●	●	●	●	●	●	●	○
0,01	820	EW 820-2NM	34	●	●	●	●	●	●	●	●	●	○
0,01	820	PWS 800-2	35	●	●	●	●	●	●	●	●	●	○
0,01	1200	PFB 1200-2	25	●	●	●	●	●	●	●	●	●	○
0,01	1200	PCB 1000-2	26	●	○	●	●	●	●	●	●	●	○
0,01	1600	572-33	31	●	○	●	●	●	●	●	●	●	○
0,01	2000	PFB 2000-2	25	●	●	●	●	●	●	●	●	●	○
0,01	2200	EW 2200-2NM	34	●	●	●	●	●	●	●	●	●	○
0,01	2200	PES 2200-2M	36	●	●	●	●	●	●	●	●	●	○
0,01	2200	EG 2200-2NM	34	○	●	●	●	●	●	●	●	●	○
0,01	2200	PEJ 2200-2M	36	○	●	●	●	●	●	●	●	●	○
0,01	2200	PDS 2000-2	38	1300,-	●	●	●	●	●	●	●	●	○
0,01	2200	PDT 2000-2	38	1500,-	●	●	●	●	●	●	●	●	○
0,01	2400	572-35	31	●	○	●	●	●	●	●	●	●	○
0,01	2500	PCD 2500-2	24	●	●	●	●	●	●	●	●	●	○
0,01	3000	PFB 3000-2	25	●	●	●	●	●	●	●	●	●	○
0,01	3000	EWJ 3000-2	30	●	●	●	●	●	●	●	●	●	○
0,01	3000	572-37	31	●	○	●	●	●	●	●	●	●	○
0,01	3200	PNS 3000-2	33	●	●	●	●	●	●	●	●	●	○
0,01	3200	PNJ 3000-2M	33	○	●	●	●	●	●	●	●	●	○
0,01	3500	PCD 3000-2	24	●	●	●	●	●	●	●	●	●	○
0,01	3600	PCB 3000-2	26	●	○	●	●	●	●	●	●	●	○
0,01	4200	572-39	31	●	○	●	●	●	●	●	●	●	○
0,01	4200	PLS 4200-2F	32	●	●	●	●	●	●	●	●	●	○
0,01	4200	PLJ 4200-2F	32	●	●	●	●	●	●	●	●	●	○
0,01	4200	EW 4200-2NM	34	●	●	●	●	●	●	●	●	●	○
0,01	4200	EG 4200-2NM	34	○	●	●	●	●	●	●	●	●	○
0,01	4200	PES 4200-2M	36	●	●	●	●	●	●	●	●	●	○

Quick-finder Precision Balances

Readability	Weighing capacity	Model	Page														
[d]	[Max]	KERN		For an explanation on the pictos, see the front flap													
g	g																
0,01	4200	PBS 4200-2M	37														
0,01	4200	PEJ 4200-2M	36	○	●												
0,01	4200	PBJ 4200-2M	37	○	●												
0,01	4200	PDS 4000-2	38														
0,01	4200	PDT 4000-2	38														
0,01	6000	PFB 6000-2	25														
0,01	6000	EWJ 6000-2	30														○
0,01	6200	EW 6200-2NM	34														○
0,01	6200	PLS 6200-2A	32														
0,01	6200	PLJ 6200-2A	32														
0,01	6200	PES 6200-2M	36														
0,01	6200	PBS 6200-2M	37														
0,01	6200	PBJ 6200-2M	37	○	●												
0,01	6200	PDS 6000-2	38														
0,01	6200	PDT 6000-2	38														
0,01	8200	PLS 8000-2A	32														
0,05	12000	572-45	31														○
0,05	20000	572-55	31														○
0,1	2000	PCB 2000-1	26														○
0,1	3200	PWS 3000-1	35														○
0,1	6000	PCD 6K-4	24														○
0,1	6000	PCB 6000-1	26														○
0,1	6000	PFB 6000-1	25														○
0,1	6000	PCJ 6000-1M	28	○	●												○
0,1	6000	EWJ 6000-1SM	30	○	●												○
0,1	6000	EWJ 6000-1M	30	○	●												○
0,1	8200	PWS 8000-1	35														○
0,1	8200	PBJ 8200-1M	37	○	●												
0,1	10000	PCD 10K0.1	24														○
0,1	10000	PCB 10000-1	26														○
0,1	10000	572-43	31														○
0,1	12000	PNS 12000-1	33														
0,1	12000	PNJ 12000-1M	33	○	●												
0,1	12000	EW 12000-1NM	34														○
0,1	15000	PES 15000-1M	36														
0,1	16000	572-49	31														○
0,1	17000	FES 17K-4	40														○
0,1	17000	FEJ 17K-4M	40	○	●												○
0,1	20000	PLS 20000-1F	32														
0,1	24000	572-57	31														○
0,1	31000	PES 31000-1M	36														
0,1	33000	FES 33K-4	40														○
0,1	33000	FEJ 33K-4M	40	○	●												○
0,1 1	6200 62000	FES 62K-4D	40														○
0,1 1	6200 62000	FEJ 62K-4DM	40	○	●												○
1	6000	PCB 6000-0	26														○
1	10000	PCD 10K-3	24														○

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● Standard ○ Option

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High-resolution precision balance with removable display for maximum flexibility

Features

- Laboratory balance with separate platform: Ideal when working in a 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/m², or similar
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **A** Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 146×146×80 mm
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 21 mm
- Dimensions weighing surface
 - A** ø 105 mm, plastic, with conductive lacquer
 - B** W×D 160×160 mm, stainless steel, see larger picture
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Dimensions of display device W×D×H 140×82×46 mm
- Cable length of display device approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

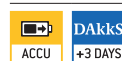
Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN PCD-A05S05
- **2** Stand to elevate display device, height of stand approx. 250 mm, KERN PCD-A03
- Internal rechargeable battery pack, operating time up to 24 h without backlight, charging time approx. 10 h, KERN PCD-A04
- **3** 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, KERN YKF-01
- Individual header data: the free software can be used to print 4 header lines on the printout when using printers 911-013 and YKN-01
- Further details, plenty of further accessories and suitable printers see *Accessories*

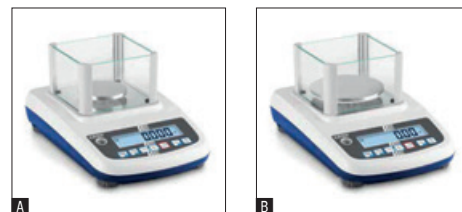
STANDARD



OPTION



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Overall dimensions W×D×H mm	Weighing plate	Options
							DAkKS Calibr. Certificate
KERN PCD 250-3	250	0,001	0,002	± 0,005	165×280×141	A	DAkKS KERN 963-127
PCD 300-3	350	0,001	0,002	± 0,005	165×280×141	A	963-127
PCD 2500-2	2500	0,01	0,02	± 0,05	165×280×75	B	963-127
PCD 3000-2	3500	0,01	0,02	± 0,05	165×280×75	B	963-127
PCD 6K-4	6000	0,1	0,1	± 0,3	165×280×75	B	963-128
PCD 10K0.1	10000	0,1	0,1	± 0,3	165×280×75	B	963-128
PCD 10K-3	10000	1	1	± 3	165×280×75	B	963-128



Quick-display precision balance with user-friendly concept of operation mode – now also with checkweighing function

Features

- KERN PFB 600-3, PFB 6000-2: The measuring system's exceptionally high resolution of 600.000 points ensures the highest level of accuracy with large weighing ranges
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Standardised, convenient KERN concept of operation: All primary functions have their own key on the keypad
- Compact size
- Capacity display: A bargraph display 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 result

- Draught shield standard for models with weighing plate size **A**, **B**, removable, weighing space W×D×H 140×150×65 mm

Technical data

- Backlit LCD display, digit height 21 mm
- Dimensions weighing surface, stainless steel
 - A** Ø 80 mm
 - B** Ø 120 mm
 - C** W×D 190×180 mm, see larger picture
- Overall dimensions W×D×H 210×315×90 mm
- Permissible ambient temperature 15 °C/30 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN PFB-A12S05
- Internal rechargeable battery pack, operating time up to 72 h without backlight, charging time approx. 6,5 h, must be ordered at purchase, KERN EWJ-A06
- Bluetooth data interface for wireless data transfer to PC or tablets, supports Bluetooth 2.0 and 4.0, must be ordered at purchase, KERN PFB-A10
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Resolution	Weighing plate	Options
							DAkKS Calibr. Certificate
KERN	g	g	g	g	Points		DAkKS KERN
PFB 120-3	120	0,001	0,002	± 0,003	120.000	A	963-127
PFB 200-3	200	0,001	0,002	± 0,004	200.000	A	963-127
PFB 300-3	300	0,001	0,003	± 0,005	300.000	A	963-127
PFB 600-3	600	0,001	0,005	± 0,005	600.000	B	963-103
PFB 600-2	600	0,01	0,01	± 0,02	60.000	B	963-127
PFB 1200-2	1200	0,01	0,02	± 0,03	120.000	B	963-127
PFB 2000-2	2000	0,01	0,02	± 0,04	200.000	B	963-127
PFB 3000-2	3000	0,01	0,03	± 0,05	300.000	B	963-127
PFB 6000-2	6000	0,01	0,05	± 0,07	600.000	C	963-104
PFB 6000-1	6000	0,1	0,1	± 0,2	60.000	C	963-128



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The standard in the laboratory, ideal for a wide range of applications for Industry 4.0

Features

- Compatible with school-specific software solutions such as, for example, Vernier® or LabQuest®. Thanks to the KERN School Protocol, as part of technical experiments, weighing data can be transferred to a PC, laptop, etc. for evaluation and display using the USB data interface
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- For further information on KUP and KCP see page 18/19
- Standardised, simplified concept of operation
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- 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
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- A special Anti-Shock system between the weighing plate and weighing cell reduces vibrations during the weighing process and in this way ensures rapid, reliable weighing results
- **A** Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space $\varnothing \times H$ 90×40 mm
- Protective working cover included with delivery



Technical data

- Backlit LCD display, digit height 21 mm
- Dimensions weighing surface
 - A** ϕ 82 mm
 - B** ϕ 105 mm
 - C** WxD 130x130 mm
 - D** WxD 150x170 mm, see larger picture
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B, C, D** stainless steel
- Overall dimensions (without draught shield) WxDxH 163x245x65 mm
- Optional battery operation, 4x1.5 V AA not included in scope of delivery, operating time up to 20 h. AUTO-OFF function to preserve the battery
- Permissible ambient temperature -10 °C/40 °C

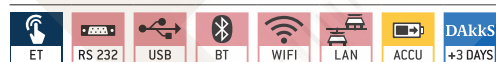
Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A12S05
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01
- RS-232 interface adapter, KERN KUP-01
- USB interface adapter, KERN KUP-03
- Ethernet interface adapter, KERN KUP-04
- WiFi interface adapter, KERN KUP-05
- Bluetooth interface adapter, KERN KUP-06
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Resolution	Weighing plate	Options
							DAkkS Calibr. Certificate
KERN	g	g	g	g	Points		DAkkS KERN
PCB 200-3	200	0,001	0,001	$\pm 0,005$	200.000	A	963-127
PCB 300-3	360	0,001	0,001	$\pm 0,005$	360.000	A	963-127
PCB 300-2	300	0,01	0,01	$\pm 0,02$	30.000	B	963-127
PCB 1000-2	1200	0,01	0,01	$\pm 0,03$	120.000	C	963-127
PCB 3000-2	3600	0,01	0,02	$\pm 0,05$	360.000	C	963-127
PCB 2000-1	2000	0,1	0,1	$\pm 0,2$	20.000	C	963-127
PCB 6000-1	6000	0,1	0,1	$\pm 0,3$	60.000	D	963-128
PCB 10000-1	10000	0,1	0,1	$\pm 0,3$	100.000	D	963-128
PCB 6000-0	6000	1	1	± 2	6.000	D	963-128



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PCJ 600-2M

PCJ 6000-1M

Precision balance with alibi memory and optional verification



Internal adjustment using the rotary control on the side guarantees a high degree of accuracy and means it can be used in any location

Features

- With alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- The balance can be adjusted in battery operation without the need for mains power
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Menu with a large number of settings which can be adapted to your requirements. For example, you can specify button tones, assign a button with different functions for rapid access and adapt the print protocol as necessary
- Menu block prevents access by unauthorised users
- Ideal for connection to laboratory information systems (LIMS)
- GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification number
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- For further information on KUP and KCP see page 18/19
- Hook for underfloor weighing included with the delivery
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 21 mm
- Dimensions weighing surface, stainless steel
 - A** WxD 131x131 mm
 - B** WxD 150x170 mm
- Overall dimensions WxDxH 163x245x80 mm
- Battery operation, 4x1.5 V AA standard, operating time up to 20 h
- Permissible ambient temperature 15 °C/35 °C

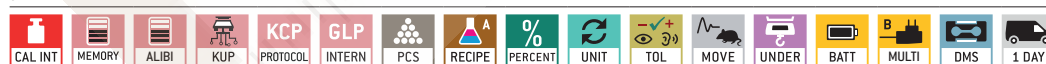
Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A12S05
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01
- External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-24
- RS-232 interface adapter, KERN KUP-01
- USB interface adapter, KERN KUP-03
- Ethernet interface adapter, KERN KUP-04
- WiFi interface adapter, KERN KUP-05
- Bluetooth interface adapter, KERN KUP-06
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL
- Further details, plenty of further accessories and suitable printers see *Accessories*

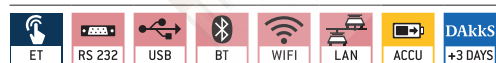
The main scope of applications is:

- Laboratories
- Chemists
- Jewellers
- Pharmaceutical industry

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Options	
								Verification	DAkkS Calibr. Certificate
KERN	g	g	g	g	g	kg	MID KERN	DAkkS KERN	
PCJ 600-2M	600	0,01	0,1	0,5	± 0,03	A	2,0	965-216	963-127
PCJ 6000-1M	6000	0,1	1	5	± 0,3	B	2,8	965-217	963-128

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



High-quality precision balance with automatic internal adjustment, verification optional

Features

- EWJ 600-3/EWJ 6000-2: The measuring system's exceptionally high resolution of 600.000 points ensures the highest level of accuracy with large weighing ranges
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Standardised, convenient KERN concept of operation: All primary functions have their own key on the keypad
- Automatic internal adjustment, time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location

- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- KERN EWJ/-H/-M: USB data interface for transferring weighing data to the PC, printer etc.
- Small draught shield as standard for models with weighing plate size **A**, **B**, removable, weighing space WxDxH 134x128x80 mm
- 1** KERN EWJ 300-3H: Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 155x175x217 mm
- Protective working cover included with delivery

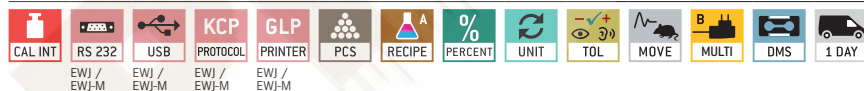
Technical data

- Large LCD display, digit height 21 mm
- Dimensions weighing surface, stainless steel
 - A** ø 80 mm
 - B** ø 120 mm
 - C** ø 135 mm, see larger picture
 - D** WxD 155x145 mm
- Permissible ambient temperature
 - KERN EWJ: 10 °C/35 °C
 - KERN EWJ-M: 10 °C/35 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN EWJ-A04S05
- Internal rechargeable battery pack, operating time up to 57 h without backlight, charging time approx. 6,5 h, KERN EWJ-A06
- Bluetooth data interface for wireless data transfer to PC or tablets, supports Bluetooth 2.0 and 4.0, must be ordered at purchase, KERN PFB-A10
- KERN EWJ/-H/-M: BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL
- Further details, plenty of further accessories and suitable printers see *Accessories*

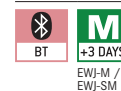
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Overall dimensions WxDxH mm	Weighing plate	Options	
								Verification	DAkKS Calibr. Certificate
KERN								M II KERN	DAkKS KERN
EWJ 300-3H	300	0,001	-	-	± 0,005	220x340x321	A	-	963-127
EWJ 300-3	300	0,001	-	-	± 0,005	220x340x90	A	-	963-127
EWJ 600-3	600	0,001	-	-	± 0,005	220x340x105	B	-	963-103
EWJ 3000-2	3000	0,01	-	-	± 0,05	220x340x105	C	-	963-127
EWJ 6000-2	6000	0,01	-	-	± 0,05	220x340x105	D	-	963-104
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.									
EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	220x340x90	B	965-216	963-127
EWJ 6000-1M	6000	0,1	1	5	± 0,3	220x340x105	D	965-217	963-128
Variants without data interfaces									
EWJ 600-2SM	600	0,01	0,1	0,5	± 0,03	220x340x90	B	965-216	963-127
EWJ 6000-1SM	6000	0,1	1	5	± 0,3	220x340x105	D	965-217	963-128



3

All-rounder, e.g. as precision balance in the laboratory or in harsh industrial applications, ideal for the diverse possibilities of Industry 4.0 applications

Features

- Thanks to the many typical laboratory functions combined with the high level of precision, the KERN 572 is a reliable partner for day-to-day work in the laboratory
- Many typical industrial functions, such as piece-counting and vibrationfree weighing also make these balances ideal for all industrial applications, where a high level of precision is required
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- For further information on KUP and KCP see page 18/19
- Standardised, simplified concept of operation
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- The robust aluminium diecast housing maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use

- **A** Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space $\phi \times H$ 157×43 mm
- Level indicator to level the balance precisely
- Load support on the underside of the balance for models. Loop for underfloor weighing, standard for models with weighing plate size **A**
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 21 mm
- Dimensions weighing surface, stainless steel
A ϕ 106 mm
B ϕ 150 mm
C W×D 160×200 mm, see larger picture
- Overall dimensions W×D×H 180×310×85 mm
- Net weight **A**, **B** approx. 2,4 kg **C** approx. 2,8 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN 572-A02S05
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01
- Interface adapter, RS-232, KERN KUP-01
 USB, KERN KUP-03
 Ethernet, KERN KUP-04
 WiFi, KERN KUP-05
 Bluetooth, KERN KUP-06
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- **B**, **C** Hook for underfloor weighing, KERN 572-A03
- 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 W×D×H 150×140×130 mm, KERN 572-A05

STANDARD

CAL EXT	KUP	KCP	GLP	PCS	RECIPE	PERCENT	UNIT	TOL	MOVE	UNDER	B	DMS	1 DAY
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OPTION

ET	RS 232	USB	BT	WIFI	LAN	UNDER	DAKkS +3 DAYS
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FACTORY

ACCU

Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Resolution	Weighing plate	Options
							DAKkS Calibr. Certificate
KERN 572-30	240	0,001	0,001	± 0,003	240.000	A	DAKkS KERN 963-127
572-31	300	0,001	0,002	± 0,005	300.000	A	963-127
572-32	420	0,001	0,002	± 0,005	420.000	A	963-127
572-33	1600	0,01	0,01	± 0,03	160.000	B	963-127
572-35	2400	0,01	0,01	± 0,03	240.000	B	963-127
572-37	3000	0,01	0,02	± 0,05	300.000	B	963-127
572-39	4200	0,01	0,02	± 0,05	420.000	B	963-127
572-45	12000	0,05	0,05	± 0,15	240.000	C	963-128
572-55	20000	0,05	0,1	± 0,25	400.000	C	963-128
572-43	10000	0,1	0,1	± 0,3	100.000	C	963-128
572-49	16000	0,1	0,1	± 0,3	160.000	C	963-128
572-57	24000	0,1	0,1	± 0,3	240.000	C	963-128



High-quality precision scale with comfortable graphic display and enormous weighing range

Features

- **1** Convenient recipe-weighing with the recipe database, up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- Internal memory for complete recipes with name and target value of the recipe ingredients
- Dosage aid: High stability mode and other filter settings can be selected
- Rapid and efficient operation thanks to the graphics display
- Simple, clear user interface on the display in the following languages: DE, EN, FR, IT, ES, PT

- KERN PLJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for applications which require verification
- **2** KERN PLJ 2000-3A: High-quality milligram balance with enormous weighing range up to 2100 g – ideal for large samples or heavy tare containers. Large glass draught shield for easy access to the items being weighed. Weighing space W×D×H 160×170×225 mm
- **A** Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space $\phi \times H$ 150×60 mm
- Protective working cover included with delivery

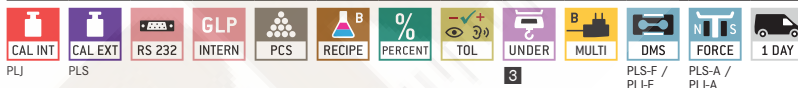
Technical data

- Backlit LCD graphic display, digit height 15 mm
- Dimensions weighing surface, stainless steel
A ϕ 110 mm
B ϕ 160 mm, see larger picture
C W×D 200×175 mm
- Permissible ambient temperature 15 °C/35 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN PLJ-A01S05
- **3** Hook for underfloor weighing, KERN PLJ-A02
- Set for density determination of liquids and solids for models with [d] = 0,001 g, KERN ALT-A02
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Overall dimensions W×D×H mm	Net weight kg	Weighing plate	Options
								DAkkS Calibr. Certificate
Models with external adjustment								
PLS 420-3F	420	0,001	0,001	± 0,004	210×340×160	3,2	A	963-127
PLS 720-3A	720	0,001	0,001	± 0,002	210×340×160	4,8	A	963-103
PLS 1200-3A	1200	0,001	0,001	± 0,003	210×340×160	4,8	A	963-103
PLS 4200-2F	4200	0,01	0,01	± 0,04	210×340×120	3,2	B	963-127
PLS 6200-2A	6200	0,01	0,01	± 0,03	210×340×120	4,8	B	963-104
PLS 8000-2A	8200	0,01	0,01	± 0,04	210×340×120	4,8	B	963-104
PLS 20000-1F	20000	0,1	0,1	± 0,4	210×340×120	3,2	C	963-128
Models with internal adjustment								
PLJ 420-3F	420	0,001	0,001	± 0,003	210×340×160	5,0	A	963-127
PLJ 720-3A	720	0,001	0,001	± 0,002	210×340×160	5,0	A	963-103
PLJ 1200-3A	1200	0,001	0,001	± 0,003	210×340×160	5,0	A	963-103
PLJ 2000-3A	2100	0,001	0,002	± 0,004	210×340×330	7	A	963-103
PLJ 4200-2F	4200	0,01	0,02	± 0,04	210×340×120	5,0	B	963-127
PLJ 6200-2A	6200	0,01	0,01	± 0,05	210×340×120	5,0	B	963-104



The new standard in the laboratory with robust tuning fork weighing system, with optional verification

Features

- KERN PNS: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see test weights
- KERN PNJ; Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for applications which require verification
- High-quality tuning fork weighing system for rapid display of the weight, very precise dispensing and a high level of mechanical robustness
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Compact size
- Large, shock proof weighing plate made of stainless steel

- **A** 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 W×D×H 172×171×160 mm
- Protective working cover included with delivery

Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
 - A** ø 140 mm
 - B** W×D 190×190 mm, see larger picture
- Overall dimensions W×D×H
 - A** 196×293×266 mm
 - B** 196×293×89 mm
- Permissible ambient temperature 5 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN PNJ-A01S05
- **T** Gemstones plate, aluminium with practical spout, W×D×H 130×80×30 mm, KERN AEJ-A05
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



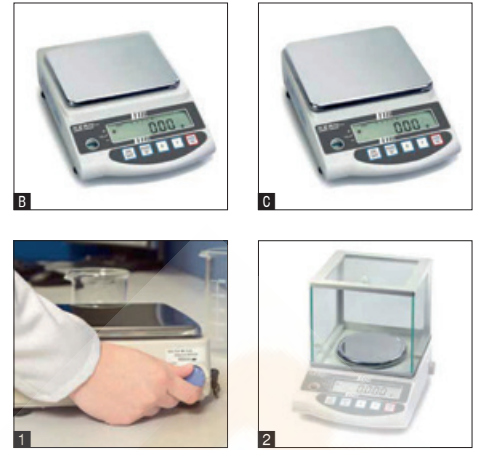
OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Options	
								Verification	DAkkS Calibr. Certificate
KERN	g	g	g	g	g	kg			
PNS 600-3	620	0,001	-	-	± 0,004	A	2,2	-	963-103
PNS 3000-2	3200	0,01	-	-	± 0,02	B	2,8	-	963-127
PNS 12000-1	12000	0,1	-	-	± 0,2	B	2,8	-	963-128
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.									
PNJ 600-3M	620	0,001	0,01	0,02	± 0,004	A	4,2	965-216	963-103
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	B	3,6	965-216	963-127
PNJ 12000-1M	12000	0,1	1	5	± 0,2	B	3,8	965-217	963-128



The classic balance with robust tuning fork measuring system

Features

- **1** KERN EG: 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
- Stable temperature behaviour
- Short stabilisation time
- Shock proof construction
- High corner load performance
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- Totalising of pieces when counting

- **A** Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 158×130×78 mm
- Protective working cover included with delivery

Technical data

- Large LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
 - A** Ø 118 mm, see larger picture
 - B** W×D 170×140 mm
 - C** W×D 180×160 mm
- Overall dimensions W×D×H
 - A** 185×235×165 mm
 - B, C** 180×235×75 mm
- Permissible ambient temperature 10 °C/30 °C

Accessories

- Protective working cover, scope of delivery 5 items, for models with weighing plate size **A, B** KERN EG-A05S05 **C** KERN EG-A09S05
- Internal rechargeable battery pack, operating time up to 12 h with backlight, charging time approx. 12 h, for models with weighing plate size **A, B** KERN EG-A04 **C** KERN EG-A06
- **2** Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, KERN EG-A03
- Loop for underfloor weighing, for models with weighing plate size **A, B** KERN EG-A07 **C** KERN EG-A08
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Options	
								Verification	DAkkS Calibr. Certificate
KERN	g	g	g	g	g		kg	M KERN	DAkkS KERN
EW 220-3NM	220	0,001	-	-	± 0,002	A	1,4	-	963-127
EW 420-3NM	420	0,001	-	-	± 0,003	A	1,4	-	963-127
EW 620-3NM	620	0,001	-	-	± 0,003	A	1,4	-	963-103
EW 820-2NM	820	0,01	-	-	± 0,01	B	1,6	-	963-127
EW 2200-2NM	2200	0,01	-	-	± 0,01	C	3,0	-	963-127
EW 4200-2NM	4200	0,01	-	-	± 0,02	C	3,0	-	963-127
EW 6200-2NM	6200	0,01	-	-	± 0,03	C	3,0	-	963-104
EW 12000-1NM	12000	0,1	-	-	± 0,2	C	3,0	-	963-128

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

EG 220-3NM	220	0,001	0,01	0,02	± 0,002	A	2,0	965-216	963-127
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	A	1,8	965-216	963-127
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	A	2,0	965-201	963-103
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	C	4,0	965-216	963-127
EG 4200-2NM	4200	0,01	0,1	0,5	± 0,02	C	4,0	965-216	963-127



3

High-resolution precision balance made of stainless steel with IP protection

Features

- High-quality tuning fork weighing system for rapid display of the weight, very precise dispensing and a high level of mechanical robustness
- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- IP65 dust and spray protection (in accordance with EN 60529)
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- **1** RS-232 data interface for connection to a printer as standard

Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
 - A** \varnothing 140 mm
 - B** WxD 190x190 mm, see larger picture
- Overall dimensions WxDxH 320x205x90 mm
- Net weight approx. 3,0 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- Loop for underfloor weighing, KERN EG-A07
- BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, scope of supplies: Download link for 1 license, KERN SCD-4.0-DL
- **2** Battery insert, enables mobile weighing, 4x1.5 V AA batteries (not included in delivery), Operating time 200 h, KERN PWS-A01
- **3** Interface cable RS-232 to connect an external device, IP65 dust and spray protection (in accordance with EN 60529), KERN PWS-A02
- Further details, plenty of further accessories and suitable printers see *Accessories*

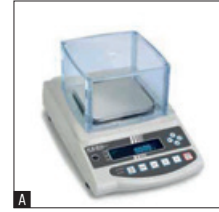
STANDARD



OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Options
						DAkks Calibr. Certificate
KERN						DAkks KERN
PWS 800-2	820	0,01	0,01	± 0,01	A	963-127
PWS 3000-1	3200	0,1	0,1	± 0,1	B	963-127
PWS 8000-1	8200	0,1	0,1	± 0,1	B	963-128



Robust laboratory and industrial precision scale for heavy items, verification optional

Features

- KERN PEJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN PES: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see test weights
- Metal housing: robust and sturdy
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 170×150×100 mm
- **A**, **B** Underfloor weighing: load support with hook on the underside of the balance for models
- **A**, **B** Protective working cover included with delivery

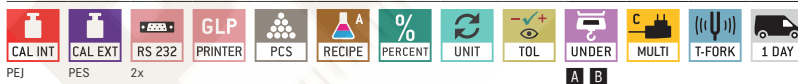
Technical data

- Fluorescent display, bright with high contrast, digit height 14 mm
- Dimensions weighing surface, stainless steel
 - A** W×D 140×120 mm
 - B** W×D 200×200 mm, see larger picture
 - C** W×D 250×220 mm
- Overall dimensions (without draught shield) W×D×H
 - A**, **B** 220×333×93 mm
 - C** 260×330×113 mm
- Permissible ambient temperature 10 °C/30 °C

Accessories

- **A**, **B** Protective working cover, scope of delivery 5 items, KERN PES-A04S05
- Relay output to connect relays, signal lamps, valves etc., 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Options	
								Verification	DAkkS Calibr. Certificate
KERN	g	g	g	g	g		kg	M KERN	DAkkS KERN
PES 620-3M	620	0,001	-	-	± 0,003	A	3,4	-	963-103
PES 2200-2M	2200	0,01	-	-	± 0,02	B	4,4	-	963-127
PES 4200-2M	4200	0,01	-	-	± 0,02	B	4,4	-	963-127
PES 6200-2M	6200	0,01	-	-	± 0,03	B	4,4	-	963-104
PES 15000-1M	15000	0,1	-	-	± 0,2	B	4,4	-	963-128
PES 31000-1M	31000	0,1	-	-	± 0,4	C	10	-	963-128

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

PEJ 620-3M	620	0,001	0,01	0,1	± 0,003	A	4,4	965-201	963-103
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	6	965-216	963-127
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02	B	6	965-216	963-127



3

Multifunctional laboratory balance with single-cell weighing system, verification optional

Features

- KERN PBS: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see test weights
- KERN PBJ: 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
- Metal housing: robust and sturdy
- Dosage aid: High stability mode and other filter settings can be selected
- Weighing with tolerance range: a visual signal helps with portioning, dispensing or grading
- Summation of weight values
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Automatic data output to the PC/printer each time the balance is steady

- **A** Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 180×193×87 mm, removable
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, Digit height 14 mm
- Dimensions weighing surface, stainless steel
 - A** W×D 112×112 mm
 - B** W×D 180×190 mm, see larger picture
- Overall dimensions (without draught shield) W×D×H: 210×330×70 mm
- Net weight approx. 4,2 kg
- Permissible ambient temperature 10 °C/30 °C

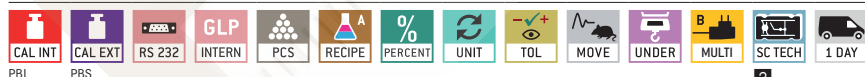
2 Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- Stable temperature behaviour
- Short stabilisation time: steady weight values within approx. 3 s under laboratory conditions
- Shock proof construction
- High corner load performance

Accessories

- Protective working cover, scope of delivery 5 items, for models with weighing plate size
 - A** KERN PBS-A01S05
 - B** KERN PBS-A02S05
- **1** Set for density determination of liquids and solids with density ≥ 1, for models with weighing plate size
 - A** KERN PBS-A04
 - B** KERN PBS-A03
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY

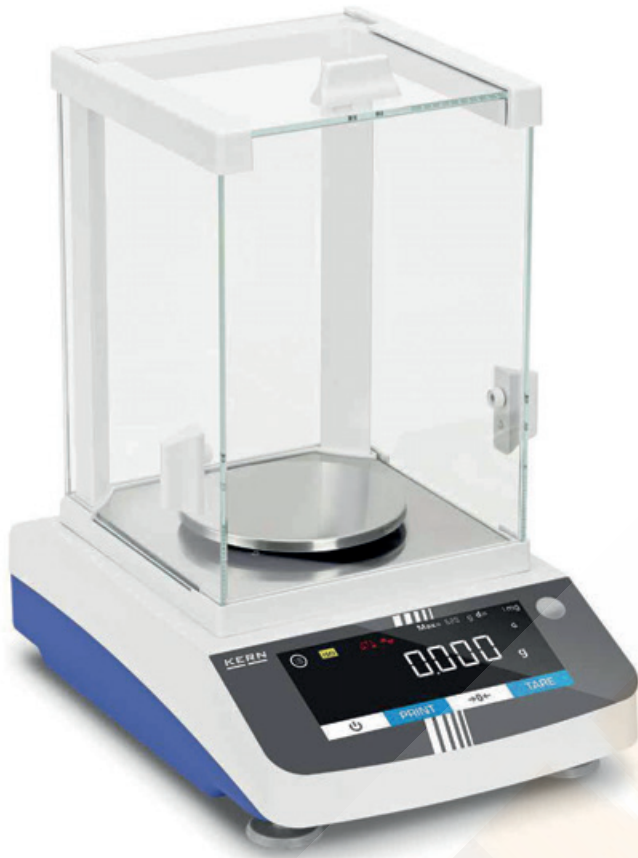


Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Options	
								Verification	DAkkS Calibr. Certificate
KERN	g	g	g	g	g	kg	M KERN	DAkkS KERN	
PBS 620-3M	620	0,001	-	-	± 0,002	A	3,2	-	963-103
PBS 4200-2M	4200	0,01	-	-	± 0,02	B	3,2	-	963-127
PBS 6200-2M	6200	0,01	-	-	± 0,02	B	3,4	-	963-104

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

PBJ 620-3M	620	0,001	0,01	0,1	± 0,002	A	4,2	965-201	963-103
PBJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	5,0	965-216	963-127
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	B	5,0	965-202	963-104
PBJ 8200-1M	8200	0,1	1	5	± 0,2	B	5,0	965-217	963-128

NEW



3

Precision balance with flexible functionality and touch display



The modern touch display enables convenient operation



Also available with a larger weighing surface



In a GLP-compliant print protocol all weights can be documented, including date, time and identification number.

Features

- The wide range of functions of this range of precision balances means that they qualify for use in the pharmaceutical industry as well as other fields. These include, for example, the statistical function, weighing with tolerance range, counting function, percentage weighing, totalizing function and many more
- Modern touch display with convenient operation enables you to, for example, switch the units or start adjustment straight from the display
- The Windows Direct function allows weights to be transferred directly from the balance to a Windows application via a USB device connection, without the need for manual entry
- Draught shield standard for models with [d] = 0,001 g, weighing space W×D×H 174×162×228 mm
- GLP/ISO record keeping with date, time and identification number of balance adjustment or weighing process
- Assists in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers, see page 19
- Underfloor weighing: load support on the underside of the balance for models. Loop for underfloor weighing, standard
- RS 232 data interface and USB (Device) for the transfer of weighing data
- Menu language EN

Technical data

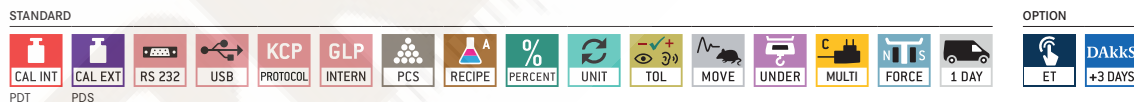
- Backlit LCD display, digit height 20 mm
- Dimensions weighing surface, stainless steel
 - A** ∅ 115 mm
 - B** W×D 185×185 mm
- Overall dimensions W×D×H
 - A** 207×318×360 mm
 - B** 207×318×110 mm
- Permissible ambient temperature 15 °C/25 °C

Accessories

- Protective dust cover, KERN ABS-A08
- Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03
- Antivibration plate 400×450×60 mm, KERN YPS-04 565×450×60 mm, KERN YPS-05
- Ioniser to neutralise electrostatic charge, KERN ABP-A01
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

The main scope of applications is:

- Laboratories
- Pharmaceutical industry
- Chemical industry
- Food industry
- Plastics industry
- Quality laboratories



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Net weight kg	Weighing plate	Options
							DAKkS Calibr. Certificate DAKkS KERN
Models with external adjustment							
PDS 300-3	320	0,001	0,003	± 0,003	6	A	963-127
PDS 600-3	620	0,001	0,003	± 0,003	6	A	963-103
PDS 1000-3	1020	0,001	0,004	± 0,005	6	A	963-103
PDS 2000-2	2200	0,01	0,03	± 0,03	3,6	B	963-127
PDS 4000-2	4200	0,01	0,03	± 0,03	3,6	B	963-127
PDS 6000-2	6200	0,01	0,03	± 0,03	3,6	B	963-104
Models with internal adjustment							
PDT 300-3	320	0,001	0,003	± 0,003	6	A	963-127
PDT 600-3	620	0,001	0,003	± 0,003	6	A	963-103
PDT 1000-3	1020	0,001	0,004	± 0,005	6	A	963-103
PDT 2000-2	2200	0,01	0,03	± 0,03	3,6	B	963-127
PDT 4000-2	4200	0,01	0,03	± 0,03	3,6	B	963-127
PDT 6000-2	6200	0,01	0,03	± 0,03	3,6	B	963-104



High-capacity precision balance with password-protected user administration, with optional verification

Features

- KERN FEJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN FES: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see *Test Weights*
- Stainless steel display device with IP65 protection, hygienic and easy to clean
- Metal housing: robust and sturdy
- User administration enables unique assignment of users and protects against unauthorised access
- Freely-assignable function keys enable individual adjustment of the balance
- IP65 dust and spray protection (in accordance with EN 60529)
- U.S. FDA 21 Part 11: assists in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel, WxD 350x400 mm
- Dimensions of display device WxDxH 290x180x80 mm
- Overall dimensions WxDxH 350x520x170 mm
- Net weight approx. 19 kg
- Permissible ambient temperature: 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN FEJ-A02S05
- Internal rechargeable battery pack, operating time up to 10 h without backlight, charging time approx. 12 h, KERN FEJ-A01
- Relay output with 5 outputs for weighing in 3 tolerance ranges, KERN FEJ-A07
- **1** Stand to elevate display device, height of stand approx. 700 mm, KERN FEJ-A05
- Interface cable RS-232 to connect an external device, IP65 dust and spray protection (in accordance with EN 60529), KERN PWS-A02
- **2** Loop for underfloor weighing, KERN FEJ-A06
- Further details, plenty of further accessories and suitable printers see *Accessories*

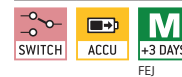
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Options	
						Verification KERN	DAkkS Calibr. Certificate DAkkS KERN
FES 17K-4	17000	0,1	-	-	± 0,3	-	963-128
FES 33K-4	33000	0,1	-	-	± 0,3	-	963-128
FES 62K-4D	6200 62000	0,1 1	-	-	± 0,3 3	-	963-129
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.							
FEJ 17K-4M	17000	0,1	1	5	± 0,3	965-217	963-128
FEJ 33K-4M	33000	0,1	1	5	± 0,3	965-217	963-128
FEJ 62K-4DM	6200 62000	0,1 1	1	5	± 0,3 3	965-218	963-129



All details on DAkkS calibration certificates for test weights, our KERN calibration service and other useful information can be found here: www.kern-lab.com

OUR KERN SERVICE FOR YOUR DAILY LABORATORY LIFE

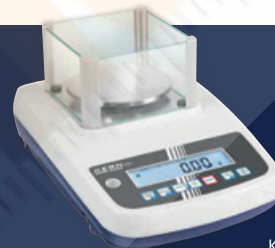
For quality assurance and easy, compliant sequences in the laboratory, KERN offers you an extensive range of services and plenty of suitable accessories – we will be happy to advise you.

Looking for the right test equipment?

You will find that we have an enormous range of test weights and suitable calibration services – all in accordance with the current DAkkS guidelines.

For example, discover our DAkkS-calibrated KERN Safety Sets each with an appropriate test weight for correct adjusting of the balance, a small test weight for checking the minimum sample weight, plus space for another separate test weight.

Extensive details on all topics see *Test Weights*.



KERN Safety Sets



KERN Clean room boxes

The benefit of KERN accessories: Count on it – everything fits together!

Our product advisors can recommend the fitting accessories for your KERN devices, so that your individual weighing systems seamlessly work together in a stable and reliable way.

Our accessories tips for all KERN Laboratory balances:



Ioniser to neutralise electrostatic charge, guarantees extremely rapid ionisation. Direct installation when ordering in combination with an ABP model, KERN ABP-A01, see *Analytical Balances*



Thermal printer, KERN YKH-01 other suitable printers, see *Accessories*

Solid weighing table

Professionalism and security for a stable weighing environment. Suitable for all laboratory balances, KERN YPS-03, see *Accessories*



→ Didn't find the right product in the catalogue?

You can find the full range of accessories and available KERN test equipment on the internet