

# 3



## 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

### PREMIUM LABORATORY BALANCES

			FES/FEJ	★ ★ ★
PBS/PBJ	PES/PEJ			★ ★
				★

### STANDARD LABORATORY BALANCES

						★ ★ ★
572	PLS/PLJ	PNS/PNJ	EW/EG	PWS		★ ★
						★

### BASIC LABORATORY BALANCES

				EWJ	PCJ	★ ★ ★
PCD	PFB	PCB	440			★ ★
						★

# PRECISION BALANCES

## **KERN school balances**

are entry-level devices in the field of laboratory balances, and they cover basic applications. They feature simple operation and the very best price/performance ratio. In addition, they can be battery-operated as an alternative to a main power source. This means that they have the flexibility to be used in different locations. See *School Balances*

## **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).

## **Tip**












Transform your scale into a powerful weighing system! Using the KERN EasyTouch App even a simple scale can be made into a powerful weighing system, offering a wide range of functions. 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 straightaway over your PC or tablet. See page 137.



Quick-Finder Precision Balances

Readability	Weighing capacity	Model	Page	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>									
[d] g	[Max] g	KERN		For an explanation on the pictos, see the front flap									
0,001	60	440-21A	30	1									
0,001	120	PFB 120-3	27	1									
0,001	200	PCB 200-3	28	1									
0,001	200	PFB 200-3	27	1									
0,001	220	EW 220-3NM	37	1									
0,001	220	EG 220-3NM	37	1									
0,001	240	572-30	34	1									
0,001	250	PCD 250-3	26	1									
0,001	300	PFB 300-3	27	1									
0,001	300	EWJ 300-3	31	1									
0,001	300	EWJ 300-3H	31	1									
0,001	300	572-31	34	1									
0,001	350	PCD 300-3	26	1									
0,001	360	PCB 300-3	28	1									
0,001	420	572-32	34	1									
0,001	420	PLS 420-3F	35	1									
0,001	420	PLJ 420-3F	35	1									
0,001	420	EW 420-3NM	37	1									
0,001	420	EG 420-3NM	37	1									
0,001	600	PFB 600-3	27	1									
0,001	600	EWJ 600-3	31	1									
0,001	620	PNS 600-3	36	1									
0,001	620	PNJ 600-3M	36	1									
0,001	620	EW 620-3NM	37	1									
0,001	620	EG 620-3NM	37	1									
0,001	620	PES 620-3M	40	1									
0,001	620	PBS 620-3M	39	1									
0,001	620	PEJ 620-3M	40	1									
0,001	620	PBJ 620-3M	39	1									
0,001	720	PLS 720-3A	35	1									
0,001	720	PLJ 720-3A	35	1									
0,001	720	PLJ 720-3AM	35	1									
0,001	1200	PLS 1200-3A	35	1									
0,001	1200	PLJ 1200-3A	35	1									
0,001	2100	PLJ 2000-3A	35	1									
0,01	200	440-33N	30	1									
0,01	300	PCB 300-2	28	1									
0,01	400	440-35N	30	1									
0,01	600	PFB 600-2	27	1									
0,01	600	440-35A	30	1									
0,01	600	PCJ 600-2M	32	1									
0,01	600	EWJ 600-2SM	31	1									
0,01	600	EWJ 600-2M	31	1									
0,01	820	EW 820-2NM	37	1									
0,01	820	PWS 800-2	38	1									
0,01	1200	PFB 1200-2	27	1									
0,01	1200	PCB 1000-2	28	1									
0,01	1600	572-33	34	1									
0,01	2000	PFB 2000-2	27	1									
0,01	2200	EW 2200-2NM	37	1									
0,01	2200	PES 2200-2M	40	1									
0,01	2200	EG 2200-2NM	37	1									
0,01	2200	PEJ 2200-2M	40	1									
0,01	2400	572-35	34	1									
0,01	2500	PCD 2500-2	26	1									
0,01	3000	PFB 3000-2	27	1									
0,01	3000	EWJ 3000-2	31	1									
0,01	3000	572-37	34	1									
0,01	3200	PNS 3000-2	36	1									
0,01	3200	PNJ 3000-2M	36	1									
0,01	3500	PCD 3000-2	26	1									
0,01	3600	PCB 3000-2	28	1									
0,01	4200	572-39	34	1									
0,01	4200	PLS 4200-2F	35	1									
0,01	4200	PLJ 4200-2F	35	1									
0,01	4200	EW 4200-2NM	37	1									
0,01	4200	EG 4200-2NM	37	1									
0,01	4200	PES 4200-2M	40	1									
0,01	4200	PBS 4200-2M	39	1									
0,01	4200	PEJ 4200-2M	40	1									
News 2024				● Standard ○ Option									

Quick-Finder Precision Balances

Readability	Weighing capacity	Model	Page											
[d] g	[Max] g	KERN												
For an explanation on the pictos, see the front flap														
0,01	4200	PBJ 4200-2M	39	1	○	●		●	●		●			
0,01	6000	PFB 6000-2	27	1			●	●		●	●	●	●	○
0,01	6000	EWJ 6000-2	31	1		●		●	●	●	●	●	●	○
0,01	6200	EW 6200-2NM	37	1			●	●		●	●			○
0,01	6200	PLS 6200-2A	35	1			●	●	●		●	●		
0,01	6200	PLJ 6200-2A	35	1		●		●	●		●	●		
0,01	6200	PLJ 6200-2AM	35	1	○	●		●	●		●	●		
0,01	6200	PES 6200-2M	40	1			●			●	●	●	●	○
0,01	6200	PBS 6200-2M	39	1			●	●	●		●			
0,01	6200	PBJ 6200-2M	39	1	○	●		●	●		●			
0,01	8200	PLS 8000-2A	35	1			●	●	●		●	●		
0,05	12000	572-45	34	1			●	○		●	●	●		○
0,05	20000	572-55	34	1			●	○		●	●	●		○
0,1	400	440-43N	30	1			●	●		●	●		●	○
0,1	1000	440-45N	30	1			●	●		●	●		●	○
0,1	2000	PCB 2000-1	28	1			●	○		●	●	●	●	○
0,1	2000	440-47N	30	1			●	●		●	●		●	○
0,1	3200	PWS 3000-1	38	1			●	●		●	●	●	●	○
0,1	4000	440-49N	30	1			●	●		●	●		●	○
0,1	6000	PCD 6K-4	26	1			●	●		●	●		●	○
0,1	6000	PCB 6000-1	28	1			●	○		●	●	●	●	○
0,1	6000	PFB 6000-1	27	1			●	●		●	●	●	●	○
0,1	6000	440-49A	30	1			●	●		●	●		●	○
0,1	6000	PCJ 6000-1M	32	1	○	●		○	●		●	●	●	○
0,1	6000	EWJ 6000-1SM	31	1	○	●					●	●		○
0,1	6000	EWJ 6000-1M	31	1	○	●					●	●		○
0,1	8200	PWS 8000-1	38	1			●	●		●	●	●	●	○
0,1	8200	PBJ 8200-1M	39	1	○	●		●	●		●			
0,1	10000	PCD 10K0.1	26	1			●	●		●	●		●	○
0,1	10000	PCB 10000-1	28	1			●	○		●	●	●	●	○
0,1	10000	572-43	34	1			●	○		●	●	●	●	○
0,1	12000	PNS 12000-1	36	1			●	●	●		●			
0,1	12000	PNJ 12000-1M	36	1	○	●		●	●		●			
0,1	12000	EW 12000-1NM	37	1			●	●		●	●			○
0,1	15000	PES 15000-1M	40	1			●	●		●	●	●	●	○
0,1	16000	572-49	34	1			●	○		●	●	●	●	○
0,1	17000	FES 17K-4	41	1			●	●	●		●	●	●	○
0,1	17000	FEJ 17K-4M	41	1		●		●	●		●	●	●	○
0,1	20000	PLS 20000-1F	35	1			●	●	●		●	●		
0,1	24000	572-57	34	1			●	○		●	●	●	●	○
0,1	31000	PES 31000-1M	40	1			●	●		●	●	●	●	○
0,1	33000	FES 33K-4	41	1			●	●	●		●	●	●	○
0,1	33000	FEJ 33K-4M	41	1		●		●	●		●	●	●	○
0,1   1	6200   62000	FES 62K-4D	41	1			●	●	●		●	●		○
0,1   1	6200   62000	FEJ 62K-4DM	41	1	○	●		●	●		●	●		○
1	4000	440-51N	30	1			●	●		●	●		●	○
1	6000	PCB 6000-0	28	1			●	○		●	●	●	●	○
1	6000	440-53N	30	1			●	●		●	●		●	○
1	10000	PCD 10K-3	26	1			●	●		●	●		●	○

News 2024

● Standard ○ Option

3



BASIC  
★



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 140×46×82 mm
- Cable length of display device approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

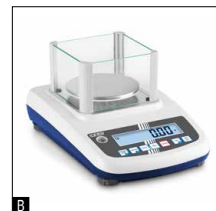
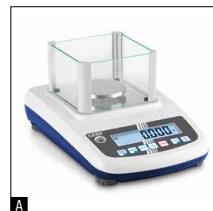
**Accessories**

- 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, YKN-01, YKB-01N and YKE-01 (in combination with YKI-02)
- 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 DAkKS KERN
KERN	g	g	g	g			
PCD 250-3	250	0,001	0,002	± 0,005	165×280×141	<b>A</b>	963-127
PCD 300-3	350	0,001	0,002	± 0,005	165×280×141	<b>A</b>	963-127
PCD 2500-2	2500	0,01	0,02	± 0,05	165×280×75	<b>B</b>	963-127
PCD 3000-2	3500	0,01	0,02	± 0,05	165×280×75	<b>B</b>	963-127
PCD 6K-4	6000	0,1	0,1	± 0,3	165×280×75	<b>B</b>	963-128
PCD 10K0.1	10000	0,1	0,1	± 0,3	165×280×75	<b>B</b>	963-128
PCD 10K-3	10000	1	1	± 3	165×280×75	<b>B</b>	963-128

FACE  
LIFTBASIC  
★

3

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

### Features

- **NEW:** KERN PFB 600-3, PFB 6000-2: The measuring system's exceptionally high resolution of points ensures the highest level of accuracy with large weighing ranges
- **NEW:** Weighing with tolerance range (checkweighing): 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, practical for small spaces
- 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
- 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
- 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
- Further details, plenty of further accessories and suitable printers see *Accessories*

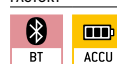
### STANDARD



### OPTION



### FACTORY



Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Options DAKKS Calibr. Certificate
	[Max]	[d]				
	g	g	g	g		KERN
<b>KERN</b>						
<b>PFB 120-3</b>	120	0,001	0,002	± 0,003	<b>A</b>	963-127
<b>PFB 200-3</b>	200	0,001	0,002	± 0,004	<b>A</b>	963-127
<b>PFB 300-3</b>	300	0,001	0,003	± 0,005	<b>A</b>	963-127
<b>PFB 600-3</b>	600	0,001	0,003	± 0,003	<b>B</b>	963-103
<b>PFB 600-2</b>	600	0,01	0,01	± 0,02	<b>B</b>	963-127
<b>PFB 1200-2</b>	1200	0,01	0,02	± 0,03	<b>B</b>	963-127
<b>PFB 2000-2</b>	2000	0,01	0,02	± 0,04	<b>B</b>	963-127
<b>PFB 3000-2</b>	3000	0,01	0,03	± 0,05	<b>B</b>	963-127
<b>PFB 6000-2</b>	6000	0,01	0,03	± 0,03	<b>C</b>	963-104
<b>PFB 6000-1</b>	6000	0,1	0,1	± 0,2	<b>C</b>	963-128

**New model**





BASIC



## 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
- Industry 4.0: The integrated KERN Universal Port (KUP) allows the connection of external KUP interface adapters such as RS-232, USB, Bluetooth, WIFI, Analogue, Ethernet etc. The outstanding advantage here is that the KUP interface adapters are simply plugged in, i.e. retrofitting interfaces is conveniently possible without opening the scale housing or complicated installation. The interface adapters enable convenient transmission of weighing data to networks, PCs, smartphones, tablets, laptops, printers etc. In addition, control commands and data inputs can also be sent to the scale via the connected devices.  
Tip: with the KERN KUP-13 extension box, up to three KUP interface adapters can be operated in parallel on the scale.
- 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 20/21
- 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 (checkweighing): 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/m<sup>2</sup>, 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



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### Technical data

- Backlit LCD display, digit height 21 mm
- Dimensions weighing surface
  - A**  $\varnothing$  82 mm
  - B**  $\varnothing$  105 mm
  - C** W×D 130×130 mm
  - D** W×D 150×170 mm, see larger picture
- Weighing plate material
  - A** plastic, with conductive lacquer
  - B, C, D** stainless steel
- Overall dimensions (without draught shield)  
W×D×H 163×245×65 mm
- Optional battery operation, 4×1.5 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

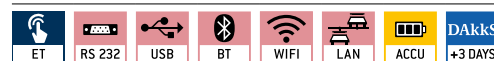
### Accessories

- 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
- External data interface RS-232, interface cable included, KERN KUP-01
- External data interface USB, interface cable included, KERN KUP-03
- Interface adapter Ethernet, KERN KUP-04
- Interface adapter WiFi, KERN KUP-05
- Bluetooth interface adapter, KERN KUP-06
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



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





BASIC  
☆☆



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
- **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 15 mm
- Dimensions weighing surface,  
**A**  $\varnothing$  81 mm, plastic, with conductive lacquer  
**B**  $\varnothing$  105 mm, stainless steel  
**C** W×D 130×130 mm, stainless steel  
**D** W×D 150×170 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 165×230×80 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,95 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery: 5 items, 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
- Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01
- For models with weighing plate size **B-D**: Hook for underfloor weighing, KERN 440-A01
- Individual header data: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N and YKE-01
- Further details, plenty of further accessories and suitable printers see *Accessories*

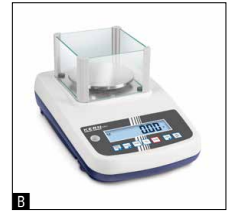
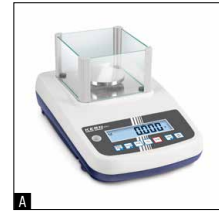
STANDARD

OPTION

**B, D**

Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Options
	[Max] g	[d] g	g	g		DAkKS Calibr. Certificate DAkKS KERN
KERN						
440-21A	60	0,001	0,001	± 0,003	<b>A</b>	963-127
440-33N	200	0,01	0,01	± 0,02	<b>B</b>	963-127
440-35N	400	0,01	0,01	± 0,03	<b>B</b>	963-127
440-35A	600	0,01	0,01	± 0,03	<b>B</b>	963-127
440-43N	400	0,1	0,1	± 0,2	<b>C</b>	963-127
440-45N	1000	0,1	0,1	± 0,2	<b>C</b>	963-127
440-47N	2000	0,1	0,1	± 0,2	<b>C</b>	963-127
440-49N	4000	0,1	0,1	± 0,3	<b>D</b>	963-127
440-49A	6000	0,1	0,1	± 0,3	<b>D</b>	963-128
440-51N	4000	1	1	± 2	<b>D</b>	963-127
440-53N	6000	1	1	± 2	<b>D</b>	963-128

ONLY WHILE STOCKS LAST

FACE  
LIFTBASIC  
★★★

3



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

### Features

- NEW:** 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
- NEW:** Weighing with tolerance range (check-weighing): 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 W×D×H 134×128×80 mm
- 1** KERN EWJ 300-3H/EWJ 600-3: Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 155×175×217 mm
- Protective working cover included with delivery

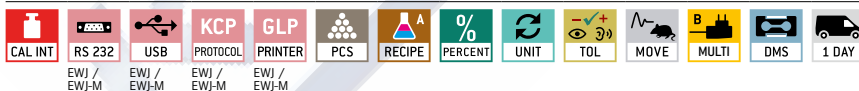
### Technical data

- 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** W×D 155×145 mm
- Permissible ambient temperature
  - KERN EWJ: 15 °C/35 °C
  - KERN EWJ-M: 15 °C/30 °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
- KERN EWJ/-H/-M: Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0
- 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 W×D×H mm	Weighing plate	Verification	Options DAkkS Calibr. Certificate
<b>KERN</b>								<b>DAkkS</b> KERN	<b>DAkkS</b> KERN
EWJ 300-3H	300	0,001	-	-	± 0,005	220×340×321	<b>A</b>	-	963-127
EWJ 300-3	300	0,001	-	-	± 0,005	220×340×90	<b>A</b>	-	963-127
EWJ 600-3	600	0,001	-	-	± 0,005	220×340×321	<b>B</b>	-	963-103
EWJ 3000-2	3000	0,01	-	-	± 0,05	220×340×105	<b>C</b>	-	963-127
EWJ 6000-2	6000	0,01	-	-	± 0,05	220×340×105	<b>D</b>	-	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	220×340×90	<b>B</b>	965-216	963-127
EWJ 6000-1M	6000	0,1	1	5	± 0,3	220×340×105	<b>D</b>	965-217	963-128
Variants without data interfaces									
EWJ 600-2SM	600	0,01	0,1	0,5	± 0,03	220×340×90	<b>B</b>	965-216	963-127
EWJ 6000-1SM	6000	0,1	1	5	± 0,3	220×340×105	<b>D</b>	965-217	963-128

**NEW** New model

NEW

BASIC  
★ ★ ★



3



PCJ 6000-1M



PCJ 600-2M

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
- Industry 4.0: 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
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- For further information on KUP and KCP see page 20/21
- 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** W×D 130×130 mm
  - B** W×D 150×170 mm
- Overall dimensions W×D×H 163×245×80 mm
- Battery operation, 4×1.5 V AA standard, operating time up to 20 h
- Permissible ambient temperature 15 °C/35 °C

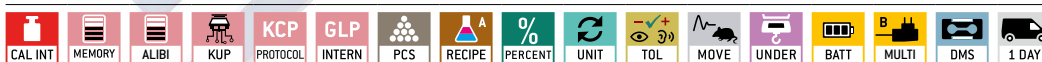
## Accessories

- 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
- External data interface RS-232, interface cable included, KERN KUP-01
- External data interface USB, interface cable included, KERN KUP-03
- External data interface Ethernet, KERN KUP-04
- External data interface WiFi, interface cable included, KERN KUP-05
- Bluetooth interface adapter, KERN KUP-06
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0
- Further details, plenty of further accessories and suitable printers see *Accessories*

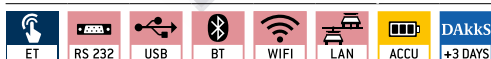
The main scope of applications is:

- Laboratories
- Chemists
- Jewellers
- Pharmaceutical industry

## STANDARD



## OPTION



## FACTORY

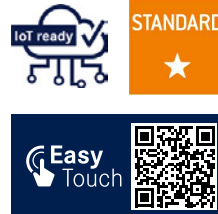


Model		Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Verification	Options DAKKS Calibr. Certificate
KERN		g	g	g	g	g	kg		M II KERN	DAKKS KERN
PCJ 600-2M	NEW	600	0,01	0,1	0,5	± 0,03	<b>A</b>	2,0	965-216	963-127
PCJ 6000-1M	NEW	6000	0,1	1	5	± 0,3	<b>B</b>	2,8	on request	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.

## NEW New model





- Protective working cover included with delivery

#### Technical data

- Large backlit LCD display, Digit height 21 mm
- Dimensions weighing surface, stainless steel
  - A** Ø 106 mm
  - B** Ø 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

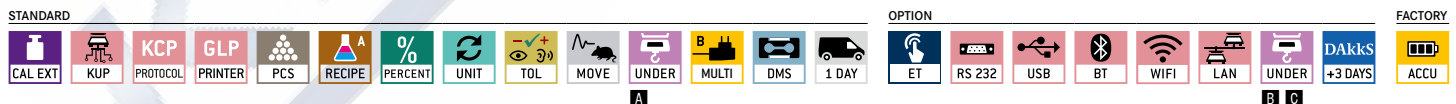
#### Accessories

- 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
- External data interface RS-232, interface cable included, KERN KUP-01
- External data interface USB, interface cable included, KERN KUP-03
- Interface adapter Ethernet, KERN KUP-04
- Interface adapter WiFi, KERN KUP-05
- Bluetooth interface adapter, 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
- **1** 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, for models with weighing plate size **A**, KERN 572-A05

## 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, such as, for example, recipe function, percentage determination, 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, vibrationfree weighing and the large weighing ranges 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 20/21
- 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/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
- **A** Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space Ø×H 157×43 mm
- Level indicator to level the balance precisely
- Underfloor weighing: load support on the underside of the balance for models. Loop for underfloor weighing, standard for models with weighing plate size **A**

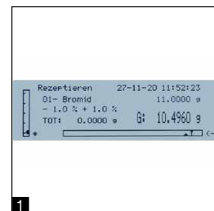


Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Resolution	Weighing plate	Options
KERN	g	g	g	g	Points		DAkKS Calibr. Certificate
<b>572-30</b>	240	0,001	0,001	± 0,003	240.000	<b>A</b>	DAkKS KERN 963-127
<b>572-31</b>	300	0,001	0,002	± 0,005	300.000	<b>A</b>	963-127
<b>572-32</b>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





STANDARD



1



2



A



B

3

- Protective working cover included with delivery

#### Technical data

- Backlit LCD graphic display, digit height 15 mm
- Dimensions weighing surface, stainless steel  
**A**  $\varnothing$  110 mm **B**  $\varnothing$  160 mm **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, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkKS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ), for details see page 230

## 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. User guidance through display
- 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, such as gold and jewellery purchasing
- **2** 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
- Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space  $\varnothing$ ×H 150×60 mm

#### STANDARD



PLJ

PLS

3

PLS-F / PLJ-F

PLS-A / PLJ-A

#### OPTION



DAkKS +3 DAYS

#### FACTORY



PLJ-M

Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Overall dimensions W×D×H mm	Weighing plate	Verification M II KERN	Options DAkKS Calibr. Certificate DAkKS KERN
<b>KERN</b>									
PLS 420-3F	420	0,001	-	-	± 0,004	210×340×160	<b>A</b>	-	963-127
PLS 720-3A	720	0,001	-	-	± 0,002	210×340×160	<b>A</b>	-	963-103
PLS 1200-3A	1200	0,001	-	-	± 0,003	210×340×160	<b>A</b>	-	963-103
PLS 4200-2F	4200	0,01	-	-	± 0,04	210×340×120	<b>B</b>	-	963-127
PLS 6200-2A	6200	0,01	-	-	± 0,03	210×340×120	<b>B</b>	-	963-104
PLS 8000-2A	8200	0,01	-	-	± 0,04	210×340×120	<b>B</b>	-	963-104
PLS 20000-1F	20000	0,1	-	-	± 0,4	210×340×120	<b>C</b>	-	963-128
<b>PLJ</b>									
PLJ 420-3F	420	0,001	-	-	± 0,003	210×340×160	<b>A</b>	-	963-127
PLJ 720-3A	720	0,001	-	-	± 0,002	210×340×160	<b>A</b>	-	963-103
PLJ 1200-3A	1200	0,001	-	-	± 0,003	210×340×160	<b>A</b>	-	963-103
PLJ 2000-3A	2100	0,001	-	-	± 0,004	210×340×330	<b>A</b>	-	963-103
PLJ 4200-2F	4200	0,01	-	-	± 0,04	210×340×120	<b>B</b>	-	963-127
PLJ 6200-2A	6200	0,01	-	-	± 0,05	210×340×120	<b>B</b>	-	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.

PLJ 720-3AM	720	0,001	0,01	0,02	± 0,002	210×340×160	<b>A</b>	965-216	963-103
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,05	210×340×120	<b>B</b>	965-217	963-104

**1** ONLY WHILE STOCKS LAST



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

Features

- KERN PNS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight 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, such as gold and jewellery purchasing
- 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
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Compact size, practical for small spaces
- 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

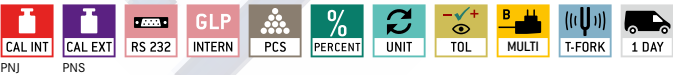
Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
  - A** Ø 140 mm
  - B** W×D 190×190 mm
- 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
- **1** Gemstones plate, aluminium with practical spout, W×D×H 130×80×30 mm, KERN AEJ-A05
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ), for details see page 230
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



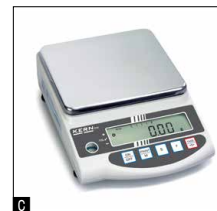
FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight kg	Verification	Options DAkkS Calibr. Certificate
KERN	g	g	g	g	g			KERN	KERN
PNS 600-3	620	0,001	-	-	± 0,004	<b>A</b>	2,2	-	963-103
PNS 3000-2	3200	0,01	-	-	± 0,02	<b>B</b>	2,8	-	963-127
PNS 12000-1	12000	0,1	-	-	± 0,2	<b>B</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	<b>A</b>	4,2	965-216	963-103
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	<b>B</b>	3,6	965-216	963-127
PNJ 12000-1M	12000	0,1	1	5	± 0,2	<b>B</b>	3,8	965-217	963-128



STANDARD  
★★



3

## 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
- 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
- Net weight  
**A** ca. 2,0 kg, **B** ca. 1,6 kg, **C** ca. 4,0 kg
- Permissible ambient temperature 10 °C/30 °C

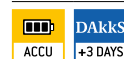
### Accessories

- 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, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkKS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ), for details see page 230
- 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	Verification	Options
	g	g	g	g	g		kg	M KERN	DAkKS Calibr. Certificate DAkKS KERN
KERN									
EW 220-3NM	220	0,001	-	-	± 0,002	<b>A</b>	1,4	-	963-127
EW 420-3NM	420	0,001	-	-	± 0,003	<b>A</b>	1,4	-	963-127
EW 620-3NM	620	0,001	-	-	± 0,003	<b>A</b>	1,4	-	963-103
EW 820-2NM	820	0,01	-	-	± 0,01	<b>B</b>	1,6	-	963-127
EW 2200-2NM	2200	0,01	-	-	± 0,01	<b>C</b>	3,0	-	963-127
EW 4200-2NM	4200	0,01	-	-	± 0,02	<b>C</b>	3,0	-	963-127
EW 6200-2NM	6200	0,01	-	-	± 0,03	<b>C</b>	3,0	-	963-104
EW 12000-1NM	12000	0,1	-	-	± 0,2	<b>C</b>	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	<b>A</b>	2,0	965-216 <b>II</b>	963-127
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	<b>A</b>	1,8	965-216 <b>II</b>	963-127
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	<b>A</b>	2,0	965-201 <b>I</b>	963-103
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	<b>C</b>	4,0	965-216 <b>II</b>	963-127
EG 4200-2NM	4200	0,01	0,1	0,5	± 0,02	<b>C</b>	4,0	965-216 <b>II</b>	963-127





STANDARD  
★★



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 ø 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
- Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0
- 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

CAL EXT

RS 232

GLP  
PRINTER

PCS

PERCENT

TOL

IP 65

MULTI

T-FORK

1 DAY

OPTION

UNDER

BATT

DAkKS  
+3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Options
	[Max]	[d]				DAkKS Calibr. Certificate
KERN	g	g	g	g		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

PREMIUM



1



2



3

3

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

### Features

- KERN PBS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight 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 (checkweighing): 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

- **1** Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 180×193×87 mm
- 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

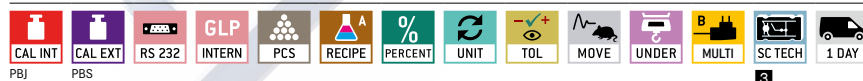
### 3 Single-cell advanced technology:

- 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
- **2** Set for density determination of liquids and solids with density  $\geq 1$ , for models with weighing plate size  
**A** KERN PBS-A04  
**B** KERN PBS-A03
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAKKS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- Further details, plenty of further accessories and suitable printers see *Accessories*

### STANDARD



### OPTION

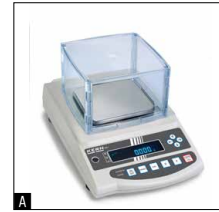


### FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Verification	Options
	g	g	g	g	g		kg	M KERN	DAKKS Calibr. Certificate DAKKS KERN
<b>KERN</b>									
<b>PBS 620-3M</b>	620	0,001	-	-	± 0,002	<b>A</b>	3,2	-	963-103
<b>PBS 4200-2M</b>	4200	0,01	-	-	± 0,02	<b>B</b>	3,2	-	963-127
<b>PBS 6200-2M</b>	6200	0,01	-	-	± 0,02	<b>B</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.									
<b>PBJ 620-3M</b>	620	0,001	0,01	0,1	± 0,002	<b>A</b>	4,2	965-201	963-103
<b>PBJ 4200-2M</b>	4200	0,01	0,1	0,5	± 0,02	<b>B</b>	5,0	965-216	963-127
<b>PBJ 6200-2M</b>	6200	0,01	0,1	1	± 0,02	<b>B</b>	5,0	965-202	963-104
<b>PBJ 8200-1M</b>	8200	0,1	1	5	± 0,2	<b>B</b>	5,0	965-217	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 using an external test weight at an additional price, see *Test Weights*
- Metal housing: robust and sturdy
- Weighing with tolerance range (checkweighing): Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the 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** Hook included with the delivery

**B** Hook not included with the delivery

- **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
- KERN PES: Internal rechargeable battery pack, operating time up to 6 h with backlight, charging time approx. 15 h, KERN PES-A01
- Loop for underfloor weighing, for models with weighing plate size **B**, KERN PES-A03
- 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, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkKS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- Further details, plenty of further accessories and suitable printers see *Accessories*

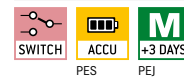
### STANDARD



### OPTION



### FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Verification	Options
KERN	g	g	g	g	g		kg	M II KERN	DAkKS Calibr. Certificate
PES 620-3M	620	0,001	-	-	± 0,003	<b>A</b>	3,6	-	963-103
PES 2200-2M	2200	0,01	-	-	± 0,02	<b>B</b>	4,4	-	963-127
PES 4200-2M	4200	0,01	-	-	± 0,02	<b>B</b>	4,0	-	963-127
PES 6200-2M	6200	0,01	-	-	± 0,03	<b>B</b>	4,4	-	963-104
PES 15000-1M	15000	0,1	-	-	± 0,2	<b>B</b>	4,4	-	963-128
PES 31000-1M	31000	0,1	-	-	± 0,4	<b>C</b>	10,0	-	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.

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



3

## High-capacity precision balance with password-protected user administration, also 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 using an external test weight at an additional price, see *Test Weights*
- Stainless steel display device with IP65 protection, hygienic and easy to clean
- Metal housing: robust and sturdy
- In order to meet requirements in the pharmaceutical industry, the balance is fitted with a user administration system, which enables unique assignment of users and protects against unauthorised access
- Intuitive concept of operation through info line on the display
- 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 you 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

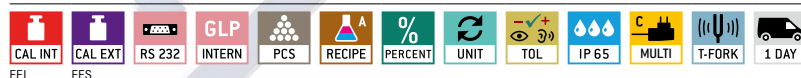
### Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel, W×D 350×400 mm
- Dimensions of display device W×D×H 290×180×80 mm
- Overall dimensions W×D×H 350×520×170 mm
- Net weight approx. 19 kg
- Permissible ambient temperature: 5 °C/35 °C

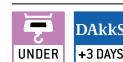
### Accessories

- 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
-  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
-  Loop for underfloor weighing, KERN FEJ-A06
- Further details, plenty of further accessories and suitable printers see *Accessories*

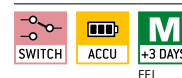
### STANDARD



### OPTION



### FACTORY



Model	Weighing capacity [Max]	Readability	Verification value	Minimal load	Linearity	Net weight	Verification	Options
	[kg]	[g]	[g]	[g]	[g]	[kg]	KERN	DAKKS Calibr. Certificate
<b>KERN</b>								<b>DAKKS KERN</b>
<b>FES 17K-4</b>	17	0,1	-	-	± 0,3	18	-	963-128
<b>FES 33K-4</b>	33	0,1	-	-	± 0,3	18	-	963-128
<b>FES 62K-4D</b>	6,2   62	0,1   1	-	-	± 0,3   3	18	-	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.								
<b>FEJ 17K-4M</b>	17	0,1	1	5	± 0,3	19	965-217	963-128
<b>FEJ 33K-4M</b>	33	0,1	1	5	± 0,3	19	965-217	963-128
<b>FEJ 62K-4DM</b>	6,2   62	0,1   1	1	5	± 0,3   3	19	965-218	963-129