

## TRADITION AND INNOVATION – 169 YEARS OF KERN

Independent and family-run, KERN is already in its 6th generation and is synonymous with quality and reliability in customer service.

### FAST

- 24 hours delivery service – order today, on its way tomorrow
- Sales & service hotline from 8:00 am to 6:00 pm

### COMPETENT

- DKD accreditation (DIN EN ISO/IEC 17025)
- QM system (DIN EN ISO 9001:2008)
- Initial verification by the manufacturer (2009/23/ECC)
- Medical (DIN EN ISO 13485 & 93/42/EWG)

### RELIABLE

- 2+ years warranty
- Precision in weighing technology for the last 169 years

### DIVERSE

- One-stop shopping: from pocket balances through to floor scales – everything from one supplier
- Quick as a flash, find the product you want with the „Balance Quick-Finder“

## PRECISION BALANCES



GB

2013

# 2 Precision balances

KERN Model		Page
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EMB-V	Entry level laboratory balance with integrated density determination function	15
EMS	Entry level model in the low cost range with large weighing plate	16
PFB	Low-cost model based on a concept of easy use	17
PCB	The economical solution for the bargain hunter	18/19
PCD	High resolution precision balance with removable display device for maximum flexibility	20
440	The bestseller in basic laboratory balances	21
PLE-N	Low-cost precision balance with wide range of functions	22
KB-N KB-NM	Convenient model at a basic price, also with EC type approval [M]	23
PKS PKP	Two laboratory specialists with clear graphics display for the most simple user guidance	24/25
572 573	All-rounder e.g. as laboratory, counting or checking balance, also with EC type approval [M]	26
EWB	Verifiable entry level model in the upper laboratory class with EC type approval [M]	27
EW	Gold and laboratory balance with EC type approval [M]	28
PLJ-N	Excellent performance, excellent price - also with EC type approval [M]	29
PKT	Touchscreen laboratory balance with extensive range of functions	30/31
PLS PLJ	Excellent performance, excellent price - also with internal adjustment	32/33
EW-N EG-N	Top of the range cost-effectiveness, with EC type approval [M]	34/35
PES PEJ	Robust laboratory and industrial precision balance, with EC type approval [M]	36
PLT	High-quality precision balance with convenient graphics display	37
PBS PBJ	Multifunctional laboratory balance with single-cell weighing system and EC type approval [M]	38/39
	High resolution model with large weighing range and large weighing plate for special laboratory applications	40



## KERN Analytical balances with Single-cell cutting edge technology



To satisfy stricter requirements for precision, speed, and → **reproducibility** of weight values, monolithic balance cells are increasingly the standard. These are measurement sensors for determination of weight that are fabricated from an aluminium. These systems distinguish themselves from conventional balance cells in terms of both quality and performance:

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

KERN analytical balances on this measurement principle are designated as using „Single Cell Technology“ (→ **SC TECH**).

→ See the glossary on page 158/159



**Interesting facts about the determination of density**

One of the main areas of application for laboratory balances is determining densities, i.e. determining the specific weight of liquids and solids. To do this you will need a highly accurate precision balance and a density set. It is particularly convenient if the balance can calculate and display the density immediately. It has become apparent that using weighing when determining the density of liquids and solids in accordance with the buoyancy method gives particularly accurate results (Archimedes' principle).

**Density determination of liquids:**

By means of measuring the buoyancy with a glass plummet

**Density determination of solid matter:**

The density is the ratio of weight [g]: Volume [cm<sup>3</sup>]. The weight is derived by weighing the sample in air. The volume is determined from the buoyancy [g] of a sample, which is submerged in a liquid. The density [g/cm<sup>3</sup>] of this liquid is known.

**Applications:**

- Materials analysis
- Density of porous materials
- Pre-packaged goods check, whenever the merchandise is sold according to volume [cm<sup>3</sup>]. This volume is calculated from the weight [g] : density [g/cm<sup>3</sup>].

**Plummet**

for density determination of liquids. Made of glass, hanging on a platinum wire.

Volume 10 cm<sup>3</sup>, weight 30 g, length 169 mm, verifiable, KERN 152-532

Verification, KERN 950-272

You can find examples of balances for density determination on pages 15, 22, 29-33, 37-39, 42-44, 46, 100/101.



**KERN EMB-V**

**KERN ACS-N/ACJ-NM**













Your KERN product specialist will be happy to help:

**Bettina Hampe**  
Product specialist  
Precision balances

# Quick-Finder

■ = Standard □ = Option











Read-out	Weighing range	Model	Page	 DAYS ready for shipping		 CAL INT	 CAL EXT	 MEMORY	 RS 232	 PCS	 TOL	 ACCU	 BATT	For an explanation of the symbols, see the flap of the envelope									
														Max	KERN								
0,001 g	60 g	440-21A	21	1			■		■	■		□	□										
0,001 g	100 g	EMB 100-3	14	1			■					□	□										
0,001 g	100 g	PCB 100-3	18	1			■		■	■		□	□										
0,001 g	120 g	PFB 120-3	17	1			■		■	■													
0,001 g	120 g	KB 120-3N	23	1			■		■	■		□											
0,001 g	150 g	EW 150-3M	28	1			■		□			□											
0,001 g	200 g	EMB 200-3	14	1			■					□	□										
0,001 g	200 g	EMB 200-3V	15	1			■		■			□	□										
0,001 g	200 g	PFB 200-3	17	1			■		■	■													
0,001 g	200 g	PKS 200-3	24	1			■	■	■	■	■	□											
0,001 g	220 g	EW 220-3NM	35	1			■		■	■		□											
0,001 g	220 g	EG 220-3NM	35	1	■	■			■	■	■	□											
0,001 g	240 g	KB 240-3N	23	1			■		■	■		□											
0,001 g	240 g	572-30	26	1			■		■	■		□											
0,001 g	250 g	PCB 250-3	18	1			■		■	■		□	□										
0,001 g	250 g	PCD 250-3	20	1			■		■	■		□	□										
0,001 g	300 g	EMS 300-3	16	1			■			■			□										
0,001 g	300 g	PFB 300-3	17	1			■		■	■													
0,001 g	300 g	PKP 300-3	24	1			■	■	■	■	■	□											
0,001 g	300 g	572-31	26	1			■		■	■		□											
0,001 g	300 g	PKT 300-3	30	1			■	■	■	■	■	□											
0,001 g	350 g	PCB 350-3	18	1			■		■	■		□	□										
0,001 g	360 g	KB 360-3N	23	1			■		■	■		□											
0,001 g	360 g	PKS 360-3	25	1			■	■	■	■	■	□											
0,001 g	360 g	PLJ 360-3NM	29	1	■	■			■	■	■	□											
0,001 g	420 g	PLE 420-3N	22	1			■		■	■	■	□											
0,001 g	420 g	PKP 420-3	24	1			■	■	■	■	■	□											
0,001 g	420 g	572-32	26	1			■		■	■		□											
0,001 g	420 g	PKT 420-3	30	1			■	■	■	■	■	□											
0,001 g	420 g	PLS 420-3F	32	1			■		■	■	■												
0,001 g	420 g	PLJ 420-3F	32	1		■			■	■	■												
0,001 g	420 g	EW 420-3NM	35	1			■		■	■	■	□											
0,001 g	420 g	EG 420-3NM	35	1	■	■			■	■	■	□											
0,001 g	420 g	PLT 420-3F	37	1		■			■	■	■												
0,001 g	420 g	PBS 420-3M	38	1			■		■	■	■												
0,001 g	420 g	PBJ 420-3M	38	1	■	■			■	■	■												
0,001 g	600 g	PLJ 600-3NM	29	1	■	■			■	■	■												
0,001 g	620 g	EW 620-3NM	35	1			■		■	■	■	□											
0,001 g	620 g	EG 620-3NM	35	1	■	■			■	■	■	□											
0,001 g	620 g	PEJ 620-3M	36	1	■	■			■	■	■												
0,001 g	620 g	PBS 620-3M	38	1			■		■	■	■												
0,001 g	620 g	PBJ 620-3M	38	1	■	■			■	■	■												
0,001 g	720 g	PLS 720-3A	32	1			■		■	■	■												
0,001 g	720 g	PLJ 720-3A	32	1	o.r.	■			■	■	■												
0,001 g	720 g	PLT 720-3A	37	1	o.r.	■	■	■	■	■	■												
0,001 g	750 g	PLJ 750-3N	29	1		■			■	■	■												
0,001 g	1200 g	PLS 1200-3A	32	1			■		■	■	■												
0,001 g	1200 g	PLJ 1200-3A	32	1		■			■	■	■												
0,001 g	1200 g	PLT 1200-3A	37	1		■	■	■	■	■	■												
0,01 g	200 g	EMB 200-2	14	1			■					□	□										
0,01 g	200 g	PCB 200-2	18	1			■		■	■		□	□										
0,01 g	200 g	440-33N	21	1			■		■	■		□	□										
0,01 g	220 g	EWB 220-2M	27	1			■			■	■	□											
0,01 g	400 g	440-35N	21	1			■		■	■		□	□										
0,01 g	600 g	EMB 600-2	14	1			■					□	□										

02

# Quick-Finder











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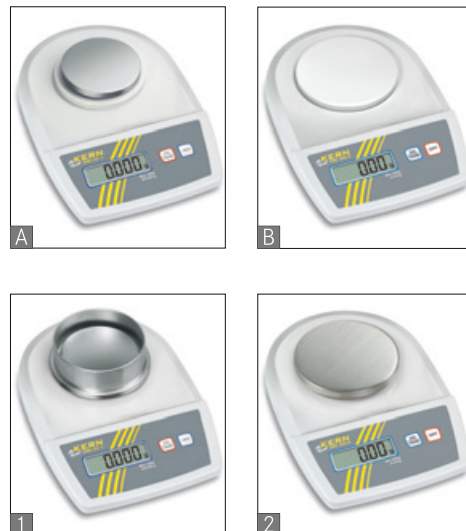
02

Read-out	Weighing range	Model	Page	 DAYS ready for shipping									
0,01 g	600 g	PFB 600-2M	17	1	■		■			■	■		
0,01 g	600 g	440-35A	21	1			■			■		□	□
0,01 g	600 g	PLJ 600-2GM	29	1	■	■				■	■	■	
0,01 g	600 g	EW 600-2M	28	1	■		■		□			□	
0,01 g	620 g	EWB 620-2M	27	1	■		■			■	■	□	
0,01 g	650 g	KB 650-2NM	23	1	■		■			■		□	
0,01 g	650 g	573-34NM	26	1	■		■			■			
0,01 g	820 g	EW 820-2NM	35	1			■			■	■	□	
0,01 g	1000 g	EMB 1000-2	14	1			■					□	□
0,01 g	1000 g	PCB 1000-2	18	1			■			■		□	□
0,01 g	1200 g	PFB 1200-2	17	1			■			■			
0,01 g	1200 g	KB 1200-2N	23	1			■			■		□	
0,01 g	1500 g	EW 1500-2M	28	1			■		□			□	
0,01 g	1600 g	572-33	26	1			■			■		□	
0,01 g	2000 g	EMB 2000-2	14	1			■					□	□
0,01 g	2000 g	EMB 2000-2V	15	1			■			■		□	□
0,01 g	2000 g	PFB 2000-2	17	1			■			■			
0,01 g	2000 g	KB 2000-2N	23	1			■			■		□	
0,01 g	2000 g	PKS 2000-2	24	1			■	■		■	■	□	
0,01 g	2200 g	EW 2200-2NM	35	1			■			■	■	□	
0,01 g	2200 g	EG 2200-2NM	35	1	■	■				■	■	□	
0,01 g	2200 g	PES 2200-2M	36	1	■		■			■	■	□	
0,01 g	2200 g	PEJ 2200-2M	36	1	■	■				■	■		
0,01 g	2400 g	KB 2400-2N	23	1			■			■		□	
0,01 g	2400 g	572-35	26	1			■			■		□	
0,01 g	2500 g	PCB 2500-2	18	1			■			■		□	□
0,01 g	2500 g	PCD 2500-2	20	1			■			■		□	□
0,01 g	3000 g	EMS 3000-2	16	1			■			■			□
0,01 g	3000 g	PFB 3000-2	17	1			■			■			
0,01 g	3000 g	PKP 3000-2	24	1			■	■		■	■	□	
0,01 g	3000 g	572-37	26	1			■			■		□	
0,01 g	3000 g	EW 3000-2M	28	1	■		■		□			□	
0,01 g	3000 g	PKT 3000-2	30	1			■	■		■	■	□	
0,01 g	3500 g	PCB 3500-2	18	1			■			■		□	□
0,01 g	3500 g	PLJ 3500-2NM	29	1	■	■				■	■		
0,01 g	3600 g	KB 3600-2N	23	1			■			■		□	
0,01 g	3600 g	PKS 3600-2	24	1			■	■		■	■	□	
0,01 g	4200 g	PLE 4200-2N	22	1			■			■	■	□	
0,01 g	4200 g	PKP 4200-2	24	1			■	■		■	■	□	
0,01 g	4200 g	572-39	26	1			■			■		□	
0,01 g	4200 g	PKT 4200-2	30	1			■	■		■	■	□	
0,01 g	4200 g	PLS 4200-2F	32	1			■			■	■		
0,01 g	4200 g	PLJ 4200-2F	32	1			■	■		■	■		
0,01 g	4200 g	EW 4200-2NM	35	1			■			■	■	□	
0,01 g	4200 g	EG 4200-2NM	35	1	■	■				■	■	□	
0,01 g	4200 g	PES 4200-2M	36	1	■		■			■	■	□	
0,01 g	4200 g	PEJ 4200-2M	36	1	■	■				■	■		
0,01 g	4200 g	PLT 4200-2F	37	1			■			■	■		
0,01 g	4200 g	PBS 4200-2M	38	1			■			■	■		
0,01 g	4200 g	PBJ 4200-2M	38	1	■	■				■	■		
0,01 g	6200 g	PLS 6200-2A	32	1			■			■	■		
0,01 g	6200 g	PLJ 6200-2A	32	1	o.r.	■				■	■		
0,01 g	6200 g	EW 6200-2NM	35	1			■			■	■	□	
0,01 g	6200 g	PES 6200-2M	36	1	■		■			■	■	□	
0,01 g	6200 g	PLT 6200-2A	37	1	o.r.	■	■	■		■	■		
0,01 g	6200 g	PBS 6200-2M	38	1			■			■	■		

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Read-out	Weighing range	Model	Page	 DAYS ready for shipping										For an explanation of the symbols, see the flap of the envelope									
0,01 g	6200 g	PBJ 6200-2M	38	1	■	■			■	■	■												
0,01 g	8000 g	PLS 8000-2A	32	1			■		■	■	■												
0,05 g	6 kg	PFB 6K0.05	17	1			■		■	■	■												
0,05 g	10 kg	KB 10K0.05N	23	1			■		■	■	■			□									
0,05 g	12 kg	PKP 12K0.05	24	1			■	■	■	■	■	■		□									
0,05 g	12 kg	572-45	26	1			■		■	■	■			□									
0,05 g	12 kg	PKT 12K0.05	30	1			■	■	■	■	■	■		□									
0,05 g	20 kg	572-55	26	1			■		■	■	■			□									
0,1 g	400 g	440-43N	21	1			■		■	■	■			□						□			
0,1 g	500 g	EMB 500-1	14	1			■							□						□			
0,1 g	600 g	PFB 600-1M	17	1	■		■		■	■	■												
0,1 g	1000 g	PCB 1000-1	18	1			■		■	■	■			□						□			
0,1 g	1000 g	440-45N	21	1			■		■	■	■			□						□			
0,1 g	1200 g	EMB 1200-1	14	1			■							□						□			
0,1 g	1200 g	EWB 1200-1M	27	1			■				■	■		□									
0,1 g	2000 g	PCB 2000-1	18	1			■		■	■	■			□						□			
0,1 g	2000 g	440-47N	21	1			■		■	■	■			□						□			
0,1 g	3000 g	EMB 3000-1	14	1			■							□						□			
0,1 g	4000 g	440-49N	21	1			■		■	■	■			□						□			
0,1 g	6000 g	EMB 6000-1	14	1			■							□						□			
0,1 g	6000 g	EMS 6K0.1	16	1			■			■	■									□			
0,1 g	6000 g	PFB 6000-1	17	1			■		■	■	■												
0,1 g	6000 g	PFB 6000-1M	17	1	■		■		■	■	■												
0,1 g	6000 g	PCB 6000-1	18	1			■		■	■	■			□						□			
0,1 g	6000 g	440-49A	21	1			■		■	■	■			□						□			
0,1 g	6000 g	EW 6000-1M	28	1	■		■		□	■	■			□									
0,1 g	6000 g	PLJ 6000-1GM	29	1	■	■			■	■	■		■	■									
0,1 g	6500 g	KB 6500-1NM	23	1	■		■		■	■	■			□									
0,1 g	6500 g	573-46NM	26	1	■		■		■	■	■												
0,1 g	8200 g	PBS 8200-1M	38	1			■		■	■	■		■										
0,1 g	8200 g	PBJ 8200-1M	38	1	■	■			■	■	■		■										
0,1 g	10 kg	PCB 10000-1	18	1			■		■	■	■			□						□			
0,1 g	10 kg	PCD 10K0.1	20	1			■		■	■	■			□						□			
0,1 g	10 kg	KB 10000-1N	23	1			■		■	■	■			□									
0,1 g	10 kg	PKS 10K0.1	24	1			■	■	■	■	■		■	□									
0,1 g	10 kg	572-43	26	1			■		■	■	■			□									
0,1 g	12 kg	EMS 12K0.1	16	1			■			■	■									□			
0,1 g	12 kg	EW 12000-1NM	35	1			■		■	■	■		■	□									
0,1 g	15 kg	PES 15000-1M	36	1	■		■		■	■	■		■	□									
0,1 g	16 kg	PKP 16K0.1	24	1			■	■	■	■	■		■	□									
0,1 g	16 kg	572-49	26	1			■		■	■	■			□									
0,1 g	16 kg	PKT 16K0.1	30	1			■	■	■	■	■		■	□									
0,1 g	20 kg	PLS 20000-1F	32	1			■		■	■	■		■	□									
0,1 g	24 kg	PKP 24K0.1	24	1			■	■	■	■	■		■	□									
0,1 g	24 kg	572-57	26	1			■		■	■	■			□									
0,1 g	24 kg	PKT 24K0.1	30	1			■	■	■	■	■		■	□									
0,1 g	31 kg	PES 31000-1M	36	1	■		■		■	■	■		■	□									
1 g	2200 g	EMB 2200-0	14	1			■							□						□			
1 g	4000 g	440-51N	21	1			■		■	■	■			□						□			
1 g	5200 g	EMB 5.2K1	14	1			■							□						□			
1 g	6000 g	EMS 6K1	16	1			■			■	■									□			
1 g	6000 g	PFB 6000-0M	17	1	■		■		■	■	■												
1 g	6000 g	PCB 6000-0	18	1			■		■	■	■			□						□			
1 g	6000 g	440-53N	21	1			■		■	■	■			□						□			
1 g	12 kg	EMS 12K1	16	1			■			■	■									□			
5 g	5200 g	EMB 5.2K5	14	1			■							□						□			



## Entry level laboratory balance with tremendous weighing performance

### Features

- **Simple and convenient 2-key operation**, making them ideal for use in schools and universities
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Secure and non-slip positioning** with rubber feet
- **Ready for use:** Batteries included. AUTO-OFF function to preserve the batteries, can be switched off

### Technical data

- Large LCD display, digit height 15 mm
- Dimensions of weighing plate (plastic)
  - ▣ **A** 82 mm
  - ▣ **B** 105 mm
  - ▣ **C** 150 mm, see larger picture
- Dimensions housing WxDxH 170x240x39 mm
- Net weight approx. 0,5 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **1 Ring-shaped draft shield**, plastic, only for models with weighing plate sizes **A**, KERN EMB-A01
- **2 Stainless steel-weighing plate**, only for models with weighing plate sizes **B**, KERN EMB-A02
- **Mains adapter external** not included, can be reordered, KERN 440-902

#### STANDARD



#### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Option	
						DKD KERN	DKD Calibr. Certificate
<b>KERN</b>							
<b>EMB 100-3</b>	100	0,001	0,001	± 0,003	<b>A</b>	963-127	
<b>EMB 200-3</b>	200	0,001	0,001	± 0,003	<b>A</b>	963-127	
<b>EMB 200-2</b>	200	0,01	0,01	± 0,02	<b>B</b>	963-127	
<b>EMB 600-2</b>	600	0,01	0,01	± 0,03	<b>B</b>	963-127	
<b>EMB 1000-2</b>	1000	0,01	0,01	± 0,03	<b>C</b>	963-127	
<b>EMB 2000-2</b>	2000	0,01	0,01	± 0,03	<b>C</b>	963-127	
<b>EMB 500-1</b>	500	0,1	0,1	± 0,2	<b>C</b>	963-127	
<b>EMB 1200-1</b>	1200	0,1	0,1	± 0,3	<b>C</b>	963-127	
<b>EMB 3000-1</b>	3000	0,1	0,1	± 0,3	<b>C</b>	963-127	
<b>EMB 6000-1</b>	6000	0,1	0,1	± 0,3	<b>C</b>	963-128	
<b>EMB 2200-0</b>	2200	1	1	± 2	<b>C</b>	963-127	
<b>EMB 5.2K1</b>	5200	1	1	± 3	<b>C</b>	963-128	
<b>EMB 5.2K5</b>	5200	5	5	± 10	<b>C</b>	963-128	



## Entry level laboratory balance with integrated density determination function and simple operation

### Features

- **Density determination made easy!** Thanks to the self-explanatory, graphic-assisted control panel, the density of solids and liquids can be determined in seconds, making them ideal for use in schools and universities. Interesting facts about density determination see page 10
- Visualised process means that operating errors are avoided
  - No learning time = reduces costs
  - Ideal for untrained users
- The 4 steps are carried out from left to right:
  - 1 Tare the balance by pressing the [TARE] key
  - 2 Select density determination mode (solids/liquids)
  - 3 Weighing samples/plummetts in air
  - 4 Weighing samples/plummetts in liquid. The density will be shown on the display immediately

- **Hook for underfloor weighing** standard
- **Particularly flat design**
- **Ready for use:** battery (9 V Block) standard. AUTO-OFF function to preserve the batteries, can be switched off
- **Tare function** facilitates formulation work

### Technical data

- Large LCD display, digit height 15 mm
- Dimensions of weighing plate, plastic
  - A 82 mm, see larger picture. The illustration shows the EMB 200-3V model with optional density set YDB-01
  - B 150 mm
- Dimensions housing WxDxH 170x240x39 mm
- Net weight approx. 0,5 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- for KERN EMB 200-3V:
- **5 Set for density determination** of liquids and solids with density  $\leq 1 \geq$ . Scope of supply: Weighing plate, beaker, sample holder, plummet. KERN YDB-01
  - **Calibration certificate for the volume plummet** (20 g), KERN 962-335V
- for KERN EMB 2000-2V:
- **6 Set for density determination** of liquids and solids with density  $\leq 1 \geq$ . Scope of supply: Weighing plate, beaker, sample holder, plummet. KERN YDB-02
  - **Calibration certificate for the volume plummet** (200 g), KERN 962-338V

#### STANDARD

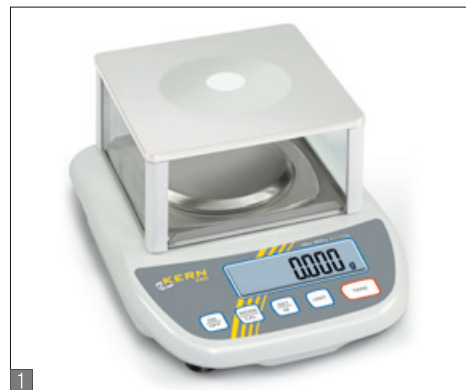


#### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Option	
						DKD Calibr. Certificate	
KERN						DKD KERN	
EMB 200-3V	200	0,001	0,002	$\pm 0,003$	A	963-127	
EMB 2000-2V	2000	0,01	0,02	$\pm 0,03$	B	963-127	





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

### Features

- Especially suitable for use in schools and universities, for example for biology, chemistry, physics
- **Large, shock proof plastic weighing plate**
- **Particularly flat design**
- **Ergonomically optimised key pad** with large keys and a high-contrast LCD display
- **Secure and non-slip positioning** with rubber feet
- **Adjusting program CAL**, external test weights at an additional price, see page 133 ff.
- **Draft shield** standard, only for models with weighing plate sizes **A**. Removable metal cover with pipette opening. Weighing space WxDxH 145x145x65 mm

### Technical data

- LCD display, digit height 15 mm
- Dimensions of weighing plate (plastic)
  - A** Ø 105 mm
  - B** WxD 160x160 mm, see larger picture
- Dimensions housing WxDxH 200x280x63 mm
- Optional battery operation, battery (9 V Block) not standard, operating time approx. 40 h, AUTO-OFF function to preserve the battery
- Mains adapter external standard
- Net weight approx. 1,4 kg
- Permissible ambient temperature 5 °C / 35 °C

#### STANDARD



#### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Option	
							DKD Calibr. Certificate	DKD KERN
<b>EMS 300-3</b>	300	0,001	0,002	± 0,005	0,002	<b>A</b>	963-127	
<b>EMS 3000-2</b>	3000	0,01	0,02	± 0,05	0,02	<b>B</b>	963-127	
<b>EMS 6K0.1</b>	6000	0,1	0,1	± 0,3	0,2	<b>B</b>	963-128	
<b>EMS 12K0.1</b>	12000	0,1	0,1	± 0,3	0,2	<b>B</b>	963-128	
<b>EMS 6K1</b>	6000	1	1	± 3	2	<b>B</b>	963-128	
<b>EMS 12K1</b>	12000	1	1	± 3	2	<b>B</b>	963-128	

New model

# Precision balance KERN PFB



02

## Low-cost model based on a concept of easy use

### Features

- **Concept of easy use:** All primary functions have their own key on the keypad
- **Compact size,** practical for small spaces
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results

- **Draft shield** standard for models with weighing plate sizes **A** and **B**. Removable metal cover with pipette opening. weighing space WxDxH 158x143x64 mm
- **Separate second display** standard for models PFB 600-1M and PFB 6000-0M. Suitable for direct sales to the public. The verification value is the same as the readout. Large backlit LCDdisplay, Digit height 16 mm. Interface cable to the balance, Cable length approx. 1 m, and Mains adapter external standard. Dimensions WxDxH 250x180x105 mm

### Technical data

- Backlit LCDdisplay, digit height 15 mm
- Dimensions of weighing plate (stainless steel)
  - A** Ø 80 mm, **B** Ø 120 mm
  - C** WxD 155x145 mm, see larger picture
- Overall dimensions (without draft shield) WxDxH 200x260x87 mm
- Net weight approx. 2 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **Separate second display**, ideal for training and demonstration purposes in laboratories or in industry, not permitted for direct sales to the public, KERN PFB-A08
- **Suitable printers** see page 130

### STANDARD



### OPTION



### FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Option		
							Verification		DKD Calibr. Certificate
							M II KERN		DKD KERN
PFB 120-3	120	0,001	-	0,001	± 0,003	A	-	-	963-127
PFB 200-3	200	0,001	-	0,001	± 0,003	A	-	-	963-127
PFB 300-3	300	0,001	-	0,001	± 0,003	A	-	-	963-127
PFB 1200-2	1200	0,01	-	0,01	± 0,03	B	-	-	963-127
PFB 2000-2	2000	0,01	-	0,01	± 0,03	B	-	-	963-127
PFB 3000-2	3000	0,01	-	0,01	± 0,03	B	-	-	963-127
PFB 6K0.05	6000	0,05	-	0,05	± 0,15	C	-	-	963-128
PFB 6000-1	6000	0,1	-	0,1	± 0,3	C	-	-	963-128
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.									
PFB 600-2M	600	0,01	0,1	0,01	± 0,02	B	965-216		963-127
PFB 600-1M	600	0,1	0,1	0,1	± 0,1	B	965-216		963-127
PFB 6000-1M	6000	0,1	1	0,1	± 0,3	C	965-217		963-128
PFB 6000-0M	6000	1	1	1	± 1	C	965-217		963-128

■ New model



The economical solution for the bargain hunter



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



**Piece counting**  
Thanks to its high level of accuracy, it is ideal for counting the smallest parts



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

# Precision balance KERN PCB



02

## Features

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display directly in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **Percentage determination**: makes it possible to store a given weight value (100%) and to determine deviations from this target value
- **Ring-shaped draft shield** standard, only for models with weighing plate sizes **A**, weighing space ØxH 90x40 mm

## Technical data

- Backlit LCDdisplay, digit height 15 mm
- Dimensions of weighing plate (stainless steel\*)
  - A** Ø 81 mm
  - B** Ø 105 mm\*
  - C** WxD 130x130 mm\*
  - D** WxD 150x170 mm\*, see larger picture
- Optional battery operation, battery (9 V Block) not standard. AUTO-OFF function to preserve the battery, can be switched off
- Overall dimensions (without draft shield) WxDxH 163x245x79 mm
- Net weight approx. 1,1 kg
- Permissible ambient temperature 5 °C / 35 °C

## Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, for models with weighing plate sizes
  - A** KERN PCB-A02
  - B** KERN PCB-A03
  - C** KERN PCB-A04
  - D** KERN PCB-A05
- **Hook for underfloor weighing** to weigh hanging loads, standard, can be reordered, KERN 440-A01
- **Rechargeable battery pack internal**, can be reordered, operating time up to 48 h without backlight, charging time approx. 8 h. AUTO-OFF function to preserve the battery, can be switched off, KERN PCB-A01
- **Software Balance Connection**, details see page 131, KERN SCD-4.0
- **Individual header data**: the free software KERN SHM-01 can be used to print 4 header lines on the printout for printers 911-013 and YKB-01N
- **Suitable printers** see page 130

### STANDARD

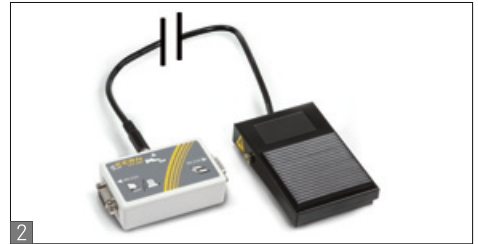


only with printer

### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Option	
								DKD Calibr. Certificate	
<b>KERN</b>								<b>DKD</b>	
<b>PCB 100-3</b>	100	0,001	0,001	± 0,003	0,002	1,1	<b>A</b>	963-127	
<b>PCB 250-3</b>	250	0,001	0,001	± 0,003	0,002	1,1	<b>A</b>	963-127	
<b>PCB 350-3</b>	350	0,001	0,002	± 0,004	0,002	1,1	<b>A</b>	963-127	
<b>PCB 200-2</b>	200	0,01	0,01	± 0,02	0,02	1,1	<b>B</b>	963-127	
<b>PCB 1000-2</b>	1000	0,01	0,01	± 0,03	0,02	1,4	<b>C</b>	963-127	
<b>PCB 2500-2</b>	2500	0,01	0,01	± 0,03	0,02	1,4	<b>C</b>	963-127	
<b>PCB 3500-2</b>	3500	0,01	0,02	± 0,04	0,02	1,4	<b>C</b>	963-127	
<b>PCB 1000-1</b>	1000	0,1	0,1	± 0,2	0,2	1,4	<b>C</b>	963-127	
<b>PCB 2000-1</b>	2000	0,1	0,1	± 0,2	0,2	1,4	<b>C</b>	963-127	
<b>PCB 6000-1</b>	6000	0,1	0,1	± 0,3	0,2	2	<b>D</b>	963-128	
<b>PCB 10000-1</b>	10000	0,1	0,1	± 0,3	0,2	2	<b>D</b>	963-128	
<b>PCB 6000-0</b>	6000	1	1	± 2	2	2	<b>D</b>	963-128	



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

### Features

- **Laboratory balance with separate platform:** Ideal when working in the glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit,** e.g. display directly in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results

- **Draft shield** standard for models with weighing plate sizes **A**, weighing space WxDxH 146x146x70 mm

### Technical data

- Backlit LCDdisplay, digit height 21 mm
- Dimensions of weighing plate  
**A** Ø 105 mm  
**B** WxD 160x160 mm, see larger picture
- Optional battery operation, 9 V Block, not included, operating time approx. 12 h. AUTO-OFF function to preserve the battery
- Overall dimensions WxDxH 165x280x73 mm
- Cable length of display device approx. 1,5 m
- Net weight approx. 1,1 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **1 Stand** to elevate display device, height of stand approx. 250 mm, KERN PCD-A03
- **2 Foot switch,** ideal, when the application requires two free hands. TARE or PRINT function can be selected. Scope of supply: junction box, Connection cable. For the PRINT function you will need the RS-232 interface cable, see page 131, KERN YKF-01
- **Rechargeable battery pack internal,** operating time up to 48 h without backlight, charging time approx. 8 h. AUTO-OFF function to preserve the battery, can be switched off, KERN PCD-A04
- **Suitable printers** see page 130

### STANDARD

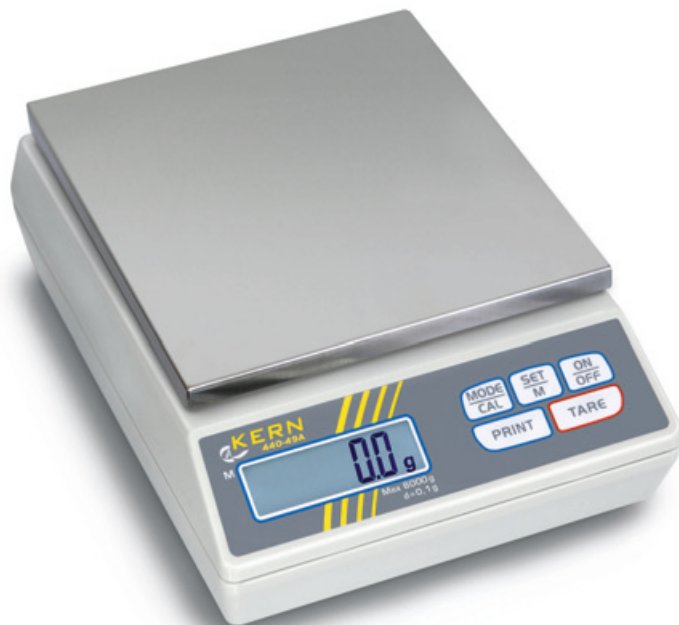


### OPTION



only with printer

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Option	
							DKD	DKD Calibr. Certificate
KERN PCD 250-3	250	0,001	0,002	± 0,005	0,002	A	963-127	
PCD 2500-2	2500	0,01	0,02	± 0,05	0,02	B	963-127	
PCD 10K0.1	10000	0,1	0,1	± 0,3	0,2	B	963-128	



## The classic balance in the laboratory

### Features

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

### Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions of weighing plate (stainless steel\*)
  - A** 81 mm
  - B** 105 mm\*
  - C** 130x130 mm\*
  - D** 150x170 mm\*, see larger picture
- Optional battery operation, 9 V Block, not included. AUTO-OFF function to preserve the battery
- Overall dimensions (without draft shield) WxDxH 165x230x80 mm
- Net weight approx. 1 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered for models with weighing plate sizes
  - A** KERN 440-210-002
  - B** KERN 440-330-002
  - C** KERN 440-450-002
  - D** KERN 440-530-002
- **Rechargeable battery pack internal**, operating time up to 20 h, charging time approx. 10 h, KERN FCB-A01
- **Second display**, KERN YKD-A01
- **Individual header data**: the free software KERN SHM-01 can be used to print 4 header lines on the printout for printers 911-013 and YKB-01N
- **Hook for underfloor weighing** to weigh hanging loads, standard, can be reordered, KERN 440-A01
- **Suitable printers** see page 130

### STANDARD



only with printer

### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Option	
							DKD Calibr.	Certificate
KERN							DKD	KERN
440-21A	60	0,001	0,001	± 0,003	0,002	<b>A</b>	963-127	
440-33N	200	0,01	0,01	± 0,02	0,02	<b>B</b>	963-127	
440-35N	400	0,01	0,01	± 0,03	0,02	<b>B</b>	963-127	
440-35A	600	0,01	0,01	± 0,03	0,02	<b>B</b>	963-127	
440-43N	400	0,1	0,1	± 0,2	0,2	<b>C</b>	963-127	
440-45N	1000	0,1	0,1	± 0,2	0,2	<b>C</b>	963-127	
440-47N	2000	0,1	0,1	± 0,2	0,2	<b>C</b>	963-127	
440-49N	4000	0,1	0,1	± 0,3	0,2	<b>D</b>	963-127	
440-49A	6000	0,1	0,1	± 0,3	0,2	<b>D</b>	963-128	
440-51N	4000	1	1	± 2	2	<b>D</b>	963-127	
440-53N	6000	1	1	± 2	2	<b>D</b>	963-128	



## Low-cost precision balance with wide range of functions

### Features

- **Compact size**, practical for small spaces
- **Piece counting**: Reference quantities selectable. Display can be switched from piece to weight.
- **Weighing sum memory** adds individual weighing results
- **Glass draught guard**, standard for models with weighing plate sizes **A**. Removable metal cover with pipette opening. weighing space ØxH 125x70 mm
- **Suspended weighing**: load support with hook on the underside of the balance (only KERN PLE 4200-2N)

### Technical data

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

### Accessories

- **Rechargeable battery pack internal**, operating time approx. 30 h without backlight, charging time approx. 10 h. Charge condition indicator on display, KERN PLE-A06
- **Set for density determination** of liquids and solids with density  $\leq 1 \geq$ , similar to illustration. on all models with readout  $d = 0,001 \text{ g}$ , KERN ALT-A02
- **Suitable printers** see page 130

#### STANDARD

CAL EXT  
 RS 232  
 GLP  
 PCS  
 PERCENT  
 UNIT  
 TOL  
 UNDER  
 230 V  
 DMS  
 1 DAY  
 2 YEARS WARRANTY

only with printer

#### OPTION

ACCU  
 DKD +3 DAYS

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Option	
							DKD Calibr. Certificate	
KERN							DKD KERN	
PLE 420-3N	420	0,001	0,002	± 0,004	0,005	<b>A</b>	963-127	
PLE 4200-2N	4200	0,01	0,02	± 0,04	0,05	<b>B</b>	963-127	

# Precision balance KERN KB



02

Convenient model at a basic price,  
also with EC type approval [M]

## Features

- **User guidance step by step** through Yes/No dialogue on the display
- **Percentage determination:** parts taken out of a container which is on the weighplate can be displayed as a percentage. Convenient when carrying out drying processes, during which the evaporated moisture or the remaining weight can be displayed as a percentage
- **Freely programmable weighing unit,** e.g. display directly in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **Ring-shaped draft shield** standard, only for models with weighing plate sizes **A**, weighing space ØxH 90x40 mm

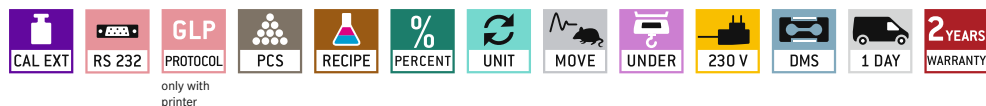
## Technical data

- Backlit LCDdisplay, digit height 9 mm
- Dimensions of weighing plate (stainless steel\*)
  - A** Ø 81 mm
  - B** Ø 130x130 mm\*
  - C** WxD 150x170 mm\*, see larger picture
- Overall dimensions without draft shield WxDxH 167x250x85 mm
- Net weight approx. 1,1 kg
- Permissible ambient temperature  
KERN KB-N: 10°C / 40 °C  
KERN KB-NM: 10°C / 30 °C

## Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, for models with weighing plate sizes
  - A** KERN PCB-A02
  - B** KERN PCB-A04
  - C** KERN PCB-A05
- **Rechargeable battery pack internal,** operating time approx. 15 h, charging time approx. 10 h, KERN KB-A01N
- **Rechargeable battery pack external,** operating time up to 15 h without backlight, charging time approx. 10 h, KERN KS-A01
- **Suitable printers** see page 130

## STANDARD



only with printer

## OPTION



## FACTORY

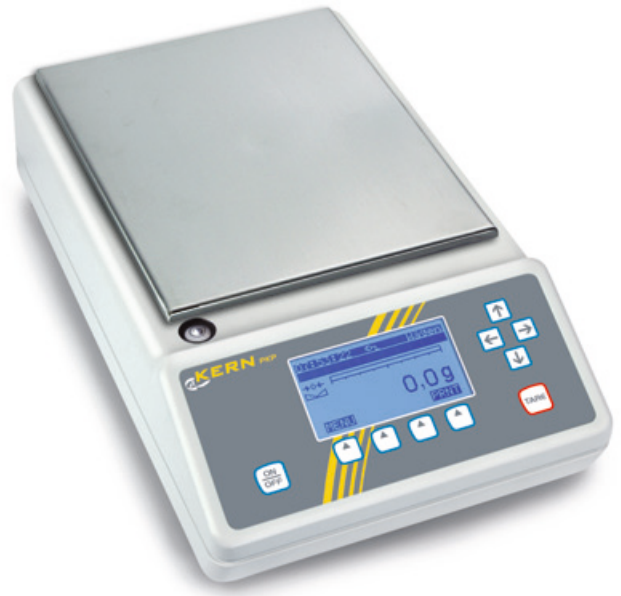


Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Option		
							Verification		DKD Calibr. Certificate
							M II	KERN	DKD KERN
<b>KB 120-3N</b>	120	0,001	-	0,001	± 0,003	<b>A</b>	-	-	963-127
<b>KB 240-3N</b>	240	0,001	-	0,001	± 0,003	<b>A</b>	-	-	963-127
<b>KB 360-3N</b>	360	0,001	-	0,001	± 0,005	<b>A</b>	-	-	963-127
<b>KB 1200-2N</b>	1200	0,01	-	0,01	± 0,03	<b>B</b>	-	-	963-127
<b>KB 2000-2N</b>	2000	0,01	-	0,01	± 0,03	<b>B</b>	-	-	963-127
<b>KB 2400-2N</b>	2400	0,01	-	0,01	± 0,03	<b>B</b>	-	-	963-127
<b>KB 3600-2N</b>	3600	0,01	-	0,01	± 0,05	<b>B</b>	-	-	963-127
<b>KB 10K0.05N</b>	10000	0,05	-	0,05	± 0,15	<b>C</b>	-	-	963-128
<b>KB 10000-1N</b>	10000	0,1	-	0,1	± 0,3	<b>C</b>	-	-	963-128
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.									
<b>KB 650-2NM</b>	650	0,01	0,1	0,01	± 0,03	<b>B</b>	950-116	-	963-127
<b>KB 6500-1NM</b>	6500	0,1	1	0,1	± 0,2	<b>C</b>	950-117	-	963-128





KERN PKS



KERN PKP

Two laboratory specialists with clear graphics display for the most simple user guidance



**Large backlit graphic display**

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



**Clear menu structure with plain text labels on the display**

The menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient, rapid operation

**Functions:**

- Capacity display
- Dispensing assistance (subtractive, additive)
- Piece counting with reference
- Automatic reference optimisation
- Tare deduction from the memory unit
- Input of item or batch description, operator etc. from the memory unit
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- Date/time in the display
- Individual printout configuration



**Weighing with tolerance range**

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



**Convenient recipe weighing**

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



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

# Precision balances KERN PKS · PKP



02

## General features

- On the basis of the KERN KB and KERN 572 bestsellers, many of your typical laboratory functions have been expanded to include a clear graphics screen, which processes the relevant information visually and makes it significantly easier to operate and read the weights off the display
- **1 Navigation pad** for super quick navigation through the menus
- **40 memories for each mode**

## Features PKS

- **High mobility:** (laboratory, production, quality testing, commissioning,...)
- **Ring-shaped draft shield** standard for models with weighing plate sizes **A**, weighing space ØxH 90x53 mm

## Technical data PKS

- Back-lit LCD graphic display, screen diagonal 3,2" (approx. 81 mm)
- Dimensions of weighing plate:
  - A** Ø 81 mm
  - B** WxD 130x130 mm

- **C** WxD 150x170 mm, see larger picture
- Dimensions housing WxDxH 167x250x85 mm
- Permissible ambient temperature 10 °C / 40 °C

## Features PKP

- **Robust metal housing**, ensures stability, protects the weighing technology elements and is robust enough to cope with everyday use
- **Ring-shaped draft shield** standard for models with weighing plate sizes **D**, weighing space ØxH 157x57 mm

## Technical data PKP

- Back-lit LCD graphic display, screen diagonal 3,2" (approx. 81 mm)
- Dimensions of weighing plate:
  - D** Ø 106 mm
  - E** Ø 150 mm
  - F** WxD 160x200 mm, see larger picture
- Dimensions housing WxDxH 180x310x85 mm
- Permissible ambient temperature 10 °C / 40 °C

## Accessories

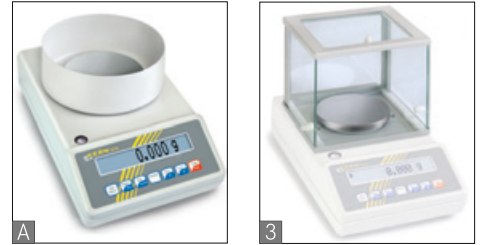
- **Protective working cover** over keyboard and housing, standard, can be reordered, for KERN PKS with weighing plate sizes
  - A** KERN PCB-A02
  - B** KERN PCB-A04
  - C** KERN PCB-A05 for KERN PKP: **D** - **F** KERN 572-A02
- **2 Rechargeable battery pack internal**, only for KERN PKS, operating time up to 10 h, charging time approx. 10 h, KERN KB-A01N
- **Rechargeable battery pack external** operating time up to 40 h, charging time approx. 10 h, KERN KS-A01
- **3 Large glass draught shield** with 3 sliding doors for easy access to the items being weighed, only for KERN PKP with weighing plate sizes **D**. Weighing space WxDxH 150x140x130 mm, KERN 572-A05
- **Suitable printers** see page 130

STANDARD



OPTION

Model	Weighing range [Max]	Readout [d]	Reproducibility	Linearity	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Option	
								DKD Calibr. Certificate	DKD KERN
<b>KERN</b>	g	g	g	g	g/piece	kg			
<b>PKS 200-3</b>	200	0,001	0,001	± 0,003	0,001	1,1	<b>A</b>		963-127
<b>PKS 360-3</b>	360	0,001	0,002	± 0,005	0,001	1,1	<b>A</b>		963-127
<b>PKS 2000-2</b>	2000	0,01	0,01	± 0,03	0,01	1,5	<b>B</b>		963-127
<b>PKS 3600-2</b>	3600	0,01	0,02	± 0,05	0,01	1,5	<b>B</b>		963-127
<b>PKS 10K0.1</b>	10000	0,1	0,1	± 0,3	0,1	1,7	<b>C</b>		963-128
<b>PKP 300-3</b>	300	0,001	0,002	± 0,005	0,001	2,3	<b>D</b>		963-127
<b>PKP 420-3</b>	420	0,001	0,002	± 0,005	0,001	2,3	<b>D</b>		963-127
<b>PKP 3000-2</b>	3000	0,01	0,02	± 0,05	0,01	2,3	<b>E</b>		963-127
<b>PKP 4200-2</b>	4200	0,01	0,02	± 0,05	0,01	2,3	<b>E</b>		963-127
<b>PKP 12K0.05</b>	12000	0,05	0,05	± 0,15	0,05	2,7	<b>F</b>		963-128
<b>PKP 16K0.1</b>	16000	0,1	0,1	± 0,3	0,1	2,7	<b>F</b>		963-128
<b>PKP 24K0.1</b>	24000	0,1	0,1	± 0,3	0,1	2,7	<b>F</b>		963-128



02

All-rounder e.g. as laboratory, counting or checking balance, also with EC type approval [M]

Features

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

- The robust metal housing maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- Only 572: **Ring-shaped draft shield** standard (Weighing plate **A**), weighing space ØxH 157x43 mm
- **1 UNITS:** Further weighing units see the internet (only 572)

Technical data

- Large backlit LCDdisplay, digit height 18 mm
- Dimensions of weighing plate (stainless steel)
  - A** Ø 106 mm
  - B** Ø 150 mm
  - C** WxD 160x200 mm, see larger picture
- Overall dimensions WxDxH 180x310x130 mm
- Permissible ambient temperature
  - KERN 572: 10 °C / 40 °C
  - KERN 573: 10 °C / 30 °C

Accessories

- **Protective working cover** standard, can be reordered, KERN 572-A02
- **2 Only 572: Rechargeable battery pack external**, operating time up to 25 h, charging time approx. 10 h, KERN KS-A01
- **3 Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 150x140x130 mm (only for models with weighing plate sizes **A**), KERN 572-A05
- **Suitable printers** see page 130

STANDARD

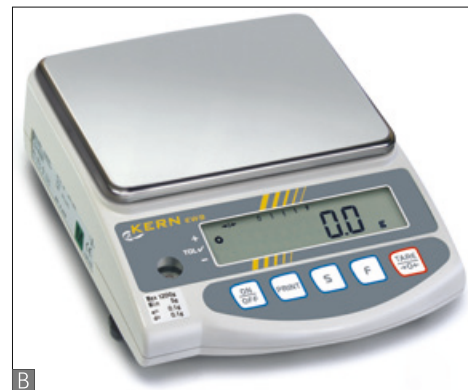
only with printer **1**

OPTION

FACTORY

only 573

Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Linearity g	Reproducibility g	Net weight approx. kg	Weighing plate	Option			
								Verification		DKD Calibr. Certificate	
								M II KERN		DKD KERN	
572-30	240	0,001	-	± 0,003	0,001	2,3	A	-	-	963-127	
572-31	300	0,001	-	± 0,005	0,001	2,3	A	-	-	963-127	
572-32	420	0,001	-	± 0,005	0,002	2,3	A	-	-	963-127	
572-33	1600	0,01	-	± 0,03	0,01	2,3	B	-	-	963-127	
572-35	2400	0,01	-	± 0,03	0,01	2,3	B	-	-	963-127	
572-37	3000	0,01	-	± 0,05	0,01	2,3	B	-	-	963-127	
572-39	4200	0,01	-	± 0,05	0,02	2,3	B	-	-	963-127	
572-45	12000	0,05	-	± 0,15	0,05	2,7	C	-	-	963-128	
572-55	20000	0,05	-	± 0,15	0,1	2,7	C	-	-	963-128	
572-43	10000	0,1	-	± 0,3	0,1	2,3	C	-	-	963-128	
572-49	16000	0,1	-	± 0,3	0,1	2,7	C	-	-	963-128	
572-57	24000	0,1	-	± 0,3	0,1	2,7	C	-	-	963-128	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
573-34NM	650	0,01	0,1	± 0,02	0,01	2,3	B	950-116		963-127	
573-46NM	6500	0,1	1	± 0,2	0,1	2,7	C	950-117		963-128	



02

Verifiable entry level model in the upper laboratory class with EC type approval [M]

Features

- **Very fast display:** steady weight values within 2 sec
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight, counting resolution up to 62.000 points
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual signal assists with portion division, dispensing or grading

Technical data

- Large LCD display, digit height 17 mm
- Dimensions of weighing plate (stainless steel)
  - A Ø 140 mm, see larger picture
  - B WxD 180x160 mm
- Dimensions housing WxDxH 182x235x75 mm
- Net weight approx. 1,1 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover** over keyboard and housing standard, can be reordered, KERN EG-A05
- **Rechargeable battery pack internal,** operating time up to 32 h, charging time approx. 10 h, can be reordered, KERN EWB-A01
- **Loop for underfloor weighing,** KERN EG-A07

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Option		
							Verification		DKD Calibr. Certificate
							M II KERN		DKD KERN
EWB 220-2M	220	0,01	0,01	0,01	0,01	A	-	-	963-127
EWB 620-2M	620	0,01	0,1	0,01	0,01	A	965-216	-	963-127
EWB 1200-1M	1200	0,1	0,1	0,1	0,1	B	-	-	963-127

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

ONLY WHILE STOCKS LAST



## Verifiable gold and laboratory balance with EC type approval [M]

### Features

- **Short stabilisation time:** Steady weight values within approx. 2 sec
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Ring-shaped draft shield** standard, only for models with weighing plate sizes **A**, weighing space ØxH 155x57 mm

### Technical data

- Large LCD display, digit height 17 mm
- Dimensions of weighing plate (stainless steel)
  - A** Ø 110 mm
  - B** Ø 140 mm
  - C** WxD 172x142 mm, see larger picture
- Overall dimensions (without draft shield) WxDxH 177x230x88 mm
- Net weight approx. 1,7 kg
- Permissible ambient temperature 10 °C / 30 °C

### Accessories

- **Protective working cover** over keyboard and housing EG-A02, can be reordered, KERN EG-A02
- **1 Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 150x140x130 mm (only KERN EW 150-3M), KERN EG-A01
- **2 Rechargeable battery pack internal**, operating time up to 32 h, charging time approx. 12 h, AUTO-OFF function to preserve the battery, KERN EW-A02
- **3 Data interface**, KERN EW-A01
- **2 3** only one option possible
- **Suitable printers** see page 130

#### STANDARD



#### OPTION



#### FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Option		
							Verification		DKD Calibr. Certificate
							M II KERN		DKD KERN
EW 150-3M	150	0,001	0,01	0,002	± 0,003	A	-	-	963-127
EW 600-2M	600	0,01	0,1	0,01	± 0,02	B	965-216	-	963-127
EW 1500-2M	1500	0,01	0,1	0,01	± 0,02	B	-	-	963-127
EW 3000-2M	3000	0,01	0,1	0,01	± 0,02	B	-	-	963-127
EW 6000-1M	6000	0,1	1	0,1	± 0,2	C	965-217	-	963-128

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

**ONLY WHILE STOCKS LAST**

# Precision balance KERN PLJ-N



02

Excellent performance at a very reasonable price, with EC type approval [M]

## Features

- **Automatic internal adjustment** in the case of a change in temperature  $\geq 3$  °C or time-controlled every 3 hours
- **Draft shield** standard (on all models with readout  $d = 0,001$  g). weighing space  $W \times D \times H$  140x140x65 mm

- **Rechargeable battery pack internal**, standard, operating time approx. 35 h, charging time approx. 12 h
- **Weighing with tolerance range (checkweighing)**: Input of an upper/lower limit value. A visual signal assists with portion division, dispensing or grading

- Overall dimensions  $W \times D \times H$  without draft shield 206x335x85 mm incl. draft shield 206x335x157 mm
- Net weight approx. 3,6 kg (incl. draft shield approx. 4 kg)
- Permissible ambient temperature 15 °C / 30 °C

## Characteristics KERN PLJ-NM:

- **Weighing principle**: Force compensation

## Characteristics KERN PLJ-GM:

- **Weighing principle**: Strain gauge
- **Ergonomically optimised keypad** for left and righthanded users

## Technical data

- Backlit LCDdisplay  
PLJ-N, -NM: digit height 17 mm  
PLJ-GM: digit height 19 mm
- Dimensions of weighing plate (stainless steel)  $W \times D$   
A 128x128 mm  
B 195x195 mm, see larger picture

## Accessories

- **Protective working cover** standard, can be reordered, KERN ALS-A02
- **Set for density determination** of liquids and solids with density  $\leq 1$ , only suitable for models with readout  $d = 0,001$  g (PLJ-N). The density is indicated directly on the display, sim. to illustration, KERN PLS-A01
- **Suitable printers** see page 130

## STANDARD



## OPTION



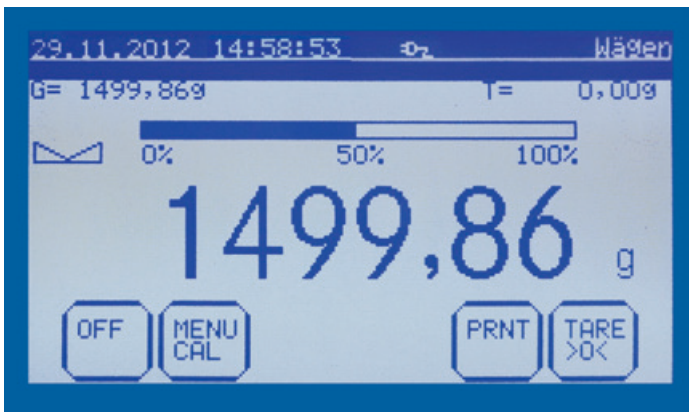
## FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Option		
								Verification		DKD Calibr. Certificate
								MII	KERN	DKD KERN
PLJ 750-3N	750	0,001	-	0,002	$\pm 0,003$	0,005	A	-	-	963-127
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
PLJ 360-3NM	360	0,001	0,01	0,001	$\pm 0,004$	0,005	A	965-216		963-127
PLJ 600-3NM	600	0,001	0,01	0,002	$\pm 0,004$	0,005	A	965-216		963-127
PLJ 600-2GM	600	0,01	0,1	0,02	$\pm 0,02$	0,05	A	965-216		963-127
PLJ 3500-2NM	3500	0,01	0,1	0,01	$\pm 0,04$	0,05	B	965-216		963-127
PLJ 6000-1GM	6000	0,1	1	0,2	$\pm 0,2$	0,5	B	965-217		963-128



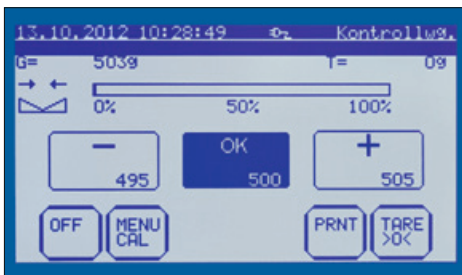
Touchscreen laboratory balance with extensive range of functions



Display at full size, operating mode weighing



**Clear menu structure with the keys labelled with plain text and touch-sensitive display**  
The menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient functionality



**Weighing with tolerance range**  
(checkweighing), ideal for portion division, dispensing, grading

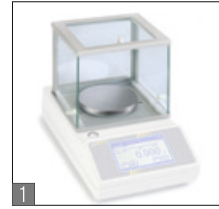


**Convenient recipe weighing**  
you can save up to 5 complete recipes in the memory with up to 7 components of a mixture. The individual components of a mixture can be printed out clearly with the name, weight and grand total



**Easy input of text and values**  
e.g. item descriptions, user name, weights for tare containers, etc. using large keypad

# Precision balance KERN PKT



02

## Features

- **Innovative touchscreen:** Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading
- **Maximum transparency:** All function keys are labelled with plain text which ensures that they are easily understood. The menu tree overlay in the info bar allows you to see at a glance which function is currently in use
- **Advantages:**
  - No more errors or lost time through keys which have several functions or unclear markings
  - Large keys, which can also be operated while wearing gloves
  - Clearly structured menu - to guide you intuitively through the large number of operating modes and functions
- **Robust metal housing,** ensures stability, protects the weighing technology elements and is robust enough to cope with everyday use
- **Ring-shaped draft shield** standard for models with weighing plate sizes **A**, weighing space  $\varnothing \times H$  157x57 mm

## Technical data

- Large backlit LCD touch display, digit height 15 mm, screen diagonal 4,3" (approx. 109 mm), WxH 91x54 mm

- Dimensions of weighing plate (stainless steel)
  - A**  $\varnothing$  106 mm
  - B**  $\varnothing$  150 mm
  - C** WxD 160x200 mm, see larger picture
- Overall dimensions WxDxH 180x310x90 mm
- Permissible ambient temperature 10 °C / 40 °C

## Accessories

- **Protective working cover** standard, can be reordered, KERN 572-A02
- **Rechargeable battery pack external,** operating time approx. 15 h, charging time approx. 10 h, KERN KS-A01
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 150x140x130 mm (only for models with weighing plate sizes **A**), KERN 572-A05
- **Set for density determination** of liquids and solids with density  $\leq 1 \geq$ ,
  - 2** for models with weighing plate sizes **A**, KERN YDK-01
  - 3** for models with weighing plate sizes **B**, KERN YDK-02
- **RS-232/Ethernet adapter,** to connect balances with an RS 232 interface to a network, using Ethernet, details see page 131, KERN YKI-01
- **Suitable printers** see page 130

## Modes

- ① Weighing
- ② Counting
- ③ Dispensing
- ④ Recipe weighing
- ⑤ Checkweighing
- ⑥ Totalizing with daily total
- ⑦ Percentage determination
- ⑧ Animal weighing
- ⑨ Surface weight
- ⑩ Density determination, only with **A**, **B**
- ⑪ Rapid mode

## Functions

- Capacity display, with ① - ②, ⑦, ⑨ - ⑪
- Dispensing assistance (subtractive, additive), with ①, ④
- Net/Gross display, permanently on, with ① - ⑩
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- Tare deduction numerical or from the memory unit, with ① - ⑩
- Input of item or batch description, operator etc., with ① - ⑩
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar, with ①, ⑨
- Date/time, with ① - ⑩
- Statistical function, with ①, ③, ⑤
- GLP printout, with ① - ⑩
- Individual printout configuration, with ① - ⑩

## STANDARD



## OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Option	
								DKD Calibr. Certificate	
KERN								DKD KERN	
PKT 300-3	300	0,001	0,002	± 0,005	0,001	2,3	<b>A</b>	963-127	
PKT 420-3	420	0,001	0,002	± 0,005	0,001	2,3	<b>A</b>	963-127	
PKT 3000-2	3000	0,01	0,02	± 0,05	0,01	2,3	<b>B</b>	963-127	
PKT 4200-2	4200	0,01	0,02	± 0,05	0,01	2,3	<b>B</b>	963-127	
PKT 12K0.05	12000	0,05	0,05	± 0,15	0,05	2,7	<b>C</b>	963-128	
PKT 16K0.1	16000	0,1	0,1	± 0,3	0,1	2,7	<b>C</b>	963-128	
PKT 24K0.1	24000	0,1	0,1	± 0,3	0,1	2,7	<b>C</b>	963-128	





Excellent performance, excellent price -  
also with internal adjustment



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



**Piece counting**  
Thanks to its high level of accuracy, it is ideal for counting the smallest parts



**Percentage determination:** parts taken out of a container which is on the weighplate can be displayed as a percentage. Convenient when carrying out drying processes, during which the evaporated moisture or the remaining weight can be displayed as a percentage

# Precision balance KERN PLS · PLJ



02

## Features

- **1 Ergonomically optimised keypad** for left and righthanded users
- **Glass draught guard**, standard for models with weighing plate sizes **A**. Removable metal cover with pipette opening. weighing space ØxH 150x60 mm
- **2 KERN PLJ: Automatic internal adjustment**
- **3 KERN PLS: Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 133 ff.

## Technical data

- Backlit LCDdisplay, digit height 17 mm
- Dimensions of weighing plate (stainless steel)
  - A** Ø 110 mm
  - B** Ø 160 mm, see larger picture
  - C** WxD 200x175 mm
- Overall dimensions WxDxH
  - without draft shield: 210x340x100 mm
  - with draft shield: 210x340x160 mm
- **4** KERN PLS/PLJ-F: Strain gauge
- **5** KERN PLS/PLJ-A: Force compensation
- Net weight approx. 4,5 kg
- Permissible ambient temperature 5 °C / 35 °C

## Accessories

- **Protective working cover** standard, can be reordered, KERN PLJ-A01
- **Hook for underfloor weighing** to weigh hanging loads, only for PLS-F and PLJ-A, KERN PLJ-A02
- **Set for density determination** of liquids and solids with density  $\leq 1 \geq$ 
  - on all models with readout d = 0,001 g, KERN ALT-A02
  - on all models with readout d = 0,01 g, KERN PLT-A01
- **Suitable printers** see page 130

## STANDARD



## OPTION



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Net weight approx. kg	Option		
									Verification		DKD Calibr. Certificate
									WI KERN		DKD KERN
PLS 420-3F	420	0,001	-	0,001	± 0,004	0,005	A	4	-	-	963-127
PLS 720-3A	720	0,001	-	0,001	± 0,002	0,005	A	4,5	-	-	963-127
PLS 1200-3A	1200	0,001	-	0,001	± 0,003	0,005	A	4,5	-	-	963-127
PLS 4200-2F	4200	0,01	-	0,01	± 0,04	0,05	B	4	-	-	963-127
PLS 6200-2A	6200	0,01	-	0,01	± 0,03	0,05	B	4,5	-	-	963-128
PLS 20000-1F	20000	0,1	-	0,1	± 0,4	0,5	C	4	-	-	963-128
PLJ 420-3F	420	0,001	-	0,001	± 0,003	0,005	A	4	-	-	963-127
PLJ 1200-3A	1200	0,001	-	0,001	± 0,003	0,005	A	4,5	-	-	963-127
PLJ 4200-2F	4200	0,01	-	0,02	± 0,04	0,05	B	4	-	-	963-127
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
PLJ 720-3A	720	0,001	0,01	0,001	± 0,002	0,05	A	4,5			963-127
PLJ 6200-2A	6200	0,01	0,1	0,01	± 0,02	0,05	B	4,5			963-128



Top of the range cost-effectiveness,  
with EC type approval [M]



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



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



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

# Precision balance KERN EW-N · EG-N



## Features

## Technical data

## Accessories

- **1** only EG-NM: **Internal adjustment (CAL) by rotary knob** on the side. Guarantees high degree of accuracy and makes the location irrelevant
- **2** only EW-NM: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 133 ff.
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight
- **Draft shield** standard for models with weighing plate sizes **A**. Removable metal cover with pipette opening, weighing space WxDxH 158x130x78 mm

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

- **Protective working cover** over keyboard and housing, standard, can be reordered. For models with weighing plate sizes **A, B** KERN EG-A05 **C** KERN EG-A09
- **Rechargeable battery pack internal**, operating time up to 32 h, charging time approx. 12 h. Charge condition indicator on display. AUTO-OFF function to preserve the battery, can be switched off. For models with weighing plate sizes **A, B** KERN EG-A04 **C** KERN EG-A06
- **B** **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed, Weighing space WxDxH 150x140x130 mm, can be reordered for models with weighing plate sizes **A**, KERN EG-A03
- **Loop for underfloor weighing**, for models with weighing plate sizes **A, B** KERN EG-A07 **C** KERN EG-A08
- **Suitable printers** see page 130

### STANDARD

CAL INT CAL EXT PCS RS 232 GLP PROTOCOL PERCENT UNIT TOL UNDER 230 V T-FORK

### OPTION

ACCU

### STANDARD

1 DAY 3 YEARS WARRANTY

### OPTION

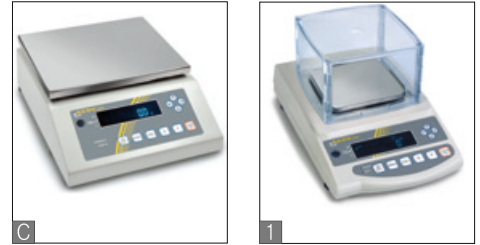
DKD +3 DAYS

### FACTORY

M +3 DAYS

Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Option			
							Verification		DKD Calibr. Certificate	
							KERN		KERN	
EW 220-3NM	220	0,001	0,01	0,001	± 0,002	<b>A</b>	-	-	963-127	
EW 420-3NM	420	0,001	0,01	0,001	± 0,003	<b>A</b>	-	-	963-127	
EW 620-3NM	620	0,001	-	0,001	± 0,003	<b>A</b>	-	-	963-127	
EW 820-2NM	820	0,01	-	0,01	± 0,01	<b>B</b>	-	-	963-127	
EW 2200-2NM	2200	0,01	0,1	0,01	± 0,01	<b>C</b>	-	-	963-127	
EW 4200-2NM	4200	0,01	0,1	0,01	± 0,02	<b>C</b>	-	-	963-127	
EW 6200-2NM	6200	0,01	-	0,01	± 0,03	<b>C</b>	-	-	963-128	
EW 12000-1NM	12000	0,1	1	0,1	± 0,2	<b>C</b>	-	-	963-128	
EG 220-3NM	220	0,001	0,01	0,001	± 0,002	<b>A</b>	965-216		963-127	
EG 420-3NM	420	0,001	0,01	0,001	± 0,003	<b>A</b>	965-216		963-127	
EG 620-3NM	620	0,001	0,01	0,001	± 0,004	<b>A</b>	965-201		963-127	
EG 2200-2NM	2200	0,01	0,1	0,01	± 0,01	<b>C</b>	965-216		963-127	
EG 4200-2NM	4200	0,01	0,1	0,01	± 0,02	<b>C</b>	965-216		963-127	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



## Robust laboratory and industrial precision balance, with EC type approval [M]

### Features

- **2** only PEJ: **Automatic internal adjustment**
- **3** only PES: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 133 ff.
- **Metal housing:** robust and sturdy
- **Weighing with tolerance range (checkweighing):** Input of 2 upper and 2 lower limit values through 4 arrow keys. An audible signal assists with the portion division, dispensing or grading
- **1 Draft shield** standard on all models with readout d = 0,001 g. weighing space WxDxH 170x150x100 mm. Removable metal cover with pipette opening

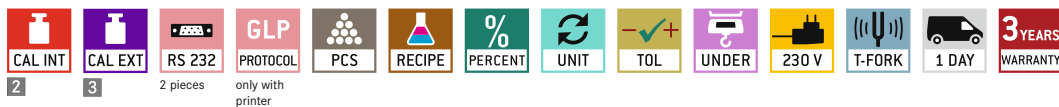
### Technical data

- Fluorescent display bright with high contrast, digit height 13 mm
- Dimensions of weighing plate (stainless steel) WxD
  - A** 140x120 mm
  - B** 200x200 mm, see larger picture
  - C** 250x220 mm
- Overall dimensions (without draft shield) WxDxH for models with weighing plate sizes
  - A** 220x333x93 mm
  - B** 220x333x93 mm
  - C** 260x333x110 mm
- Permissible ambient temperature 10 °C / 30 °C

### Accessories

- **Protective working cover** standard, can be reordered (not for KERN PES 31000-1M), KERN PES-A04
- **4** Only PES: **Rechargeable battery pack internal**, operating time up to 6 h, charging time approx. 15 h (internal charging with mains adapter), must be ordered at purchase, KERN PES-A01
- **Relay output** with 5 outputs for weighing result in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02
- **Suitable printers** see page 130

#### STANDARD



#### OPTION

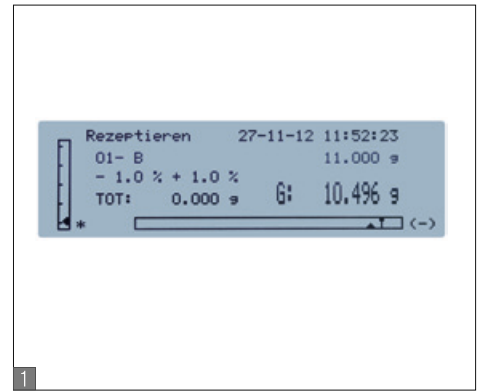


#### FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Repro-ducibility g	Linearity g	Net weight approx. kg	Weighing plate	Options		
								Verification		DKD Calibr. Certificate
								M KERN		DKD KERN
<b>PES 2200-2M</b>	2200	0,01	0,1	0,01	± 0,02	4	B	-	-	963-127
<b>PES 4200-2M</b>	4200	0,01	0,1	0,01	± 0,02	4	B	-	-	963-127
<b>PES 6200-2M</b>	6200	0,01	-	0,01	± 0,03	4	B	-	-	963-128
<b>PES 15000-1M</b>	15000	0,1	1	0,1	± 0,2	4	B	-	-	963-128
<b>PES 31000-1M</b>	31000	0,1	1	0,1	± 0,4	8,9	C	-	-	963-128
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
<b>PEJ 620-3M</b>	620	0,001	0,01	0,001	± 0,003	6	A	965-201 I		963-127
<b>PEJ 2200-2M</b>	2200	0,01	0,1	0,01	± 0,02	6	B	965-216 II		963-127
<b>PEJ 4200-2M</b>	4200	0,01	0,1	0,01	± 0,02	6	B	965-216 III		963-127

# Precision balance KERN PLT



## High-quality precision balance with convenient graphics display, now also with EC type approval [M]

### Features

- **Convenient recipe-weighing:** with the recipe database, in which up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- **Rapid and efficient operation** thanks to the graphics display
- **Simple plain text user guidance in the display** in the following languages: D, GB, F, I, E, PT
- **Automatic internal adjustment** in the case of a change in temperature > 1,5 °C or time-controlled every 20 minutes
- **Percentage determination:** makes it possible to store a given weight value (100%) and to determine deviations from this target value

- **Weighing with tolerance range,** ideal for portion division, dispensing, grading
- **GLP/ISO record keeping** of weight values with date, time and serial number
- **Glass draught guard,** standard for models with weighing plate sizes **A**. Removable metal cover with pipette opening. weighing space ØxH 150x60 mm

### Technical data

- Large backlit LCDdisplay, digit height 15 mm
- Dimensions of weighing plate  
**A** Ø 110 mm  
**B** Ø 160 mm
- Overall dimensions (incl. draft shield)  
WxDxH 210x340x160 mm
- Net weight approx. 4 kg

- Permissible ambient temperature  
5 °C / 35 °C

### Accessories

- **Protective working cover,** KERN PLJ-A01
- **Set for density determination** of liquids and solids with density  $\leq 1 \geq$   
On all models with readout d = 0,001 g, KERN ALT-A02  
On all models with readout d = 0,01 g, KERN PLT-A01
- **Suitable printers** see page 130

### STANDARD



only YKB / YKS

### OPTION



### FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Options			
								Verification		DKD Calibr. Certificate	
								MII KERN		DKD KERN	
PLT 420-3F	420	0,001	-	0,001	± 0,004	0,005	A	-	-	963-127	
PLT 1200-3A	1200	0,001	-	0,001	± 0,003	0,005	A	-	-	963-127	
PLT 4200-2F	4200	0,01	-	0,01	± 0,04	0,05	B	-	-	963-127	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
PLT 720-3A	720	0,001	0,01	0,001	± 0,002	0,005	A	on request		963-127	
PLT 6200-2A	6200	0,01	0,1	0,01	± 0,03	0,05	B	on request		963-128	

■ New model



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



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



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



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

# Precision balance KERN PBS · PBJ



02

## Features

- **1** only PBJ: **Automatic internal adjustment** in the case of a change in temperature or time-controlled at defined intervals
- **Metal housing:** robust and sturdy
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual signal assists with portion division, dispensing or grading
- **Totalizing** of individual weighing results
- **Identification number:** 4 numeric positions, printed on calibration protocol
- **Automatic data output to the PC/printer** every time the balance is steady
- **3 Draft shield** standard, on all models with readout  $d = 0,001$  g, weighing space  $W \times D \times H$  180x193x87 mm

## Technical data

- Large backlit LCDdisplay, digit height 14 mm
- Dimensions of weighing plate (stainless steel)
  - A** 108x105 mm
  - B** 170x180 mm, see larger picture
- Overall dimensions (without draft shield)  $W \times D \times H$  209x322x78 mm
- Net weight approx. 3 kg
- Permissible ambient temperature 10 °C / 30 °C

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

## Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, for models with weighing plate sizes
  - A** KERN PBS-A01
  - B** KERN PBS-A02
- **4 Set for density determination** for models with weighing plate sizes
  - A** KERN PBS-A04
  - B** KERN PBS-A03
- **Suitable printers** see page 130

## STANDARD



## OPTION



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Mindest-last [Min] g	Repro-ducibility g	Linearity g	Weighing plate	Options					
								Verification		DKD Calibr. Certificate			
								M KERN		DKD KERN			
<b>PBS 420-3M *</b>	420	0,001	0,01	0,02	0,001	± 0,002	A						
<b>PBS 620-3M</b>	620	0,001	-	-	0,001	± 0,002	A						
<b>PBS 4200-2M</b>	4200	0,01	0,1	0,5	0,01	± 0,02	B						
<b>PBS 6200-2M</b>	6200	0,01	-	-	0,01	± 0,02	B						
<b>PBS 8200-1M *</b>	8200	0,1	1	5	0,1	± 0,2	B						
<b>PBJ 420-3M *</b>	420	0,001	0,01	0,02	0,001	± 0,002	A		965-216	III		963-127	
<b>PBJ 620-3M</b>	620	0,001	0,01	0,1	0,001	± 0,002	A		965-201	I		963-127	
<b>PBJ 4200-2M</b>	4200	0,01	0,1	0,5	0,01	± 0,02	B		965-216	III		963-127	
<b>PBJ 6200-2M</b>	6200	0,01	0,1	1	0,01	± 0,02	B		965-202	I		963-128	
<b>PBJ 8200-1M</b>	8200	0,1	1	5	0,1	± 0,2	B		965-217	III		963-128	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

**!** \* ONLY WHILE STOCKS LAST

**■** Price reduction





## High-precision balances for heavy loads

High-capacity precision balances can be used when the weighing ranges of classic laboratory balances are not sufficient or the items to be weighed are relatively bulky.



### KERN PES 3 1000-1M Robust laboratory and industrial precision balance

Ideally suited for compact, very dense samples, such as those which might be found in road building or the construction industry, for example.

Weighing range: 31 kg  
Read-out: 0,1 g  
Weighing plate: 250x220 mm

For additional information see page 36



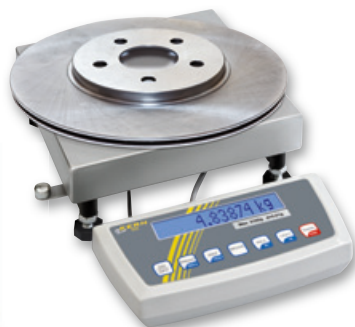
KERN PES

### KERN DS 5K0.05S Affordable platform balance with laboratory accuracy

Best for bulky or heavy samples, thanks to the robust platform with stainless steel weighing plate and display device which can be positioned to suit you. Of course it has all the features related to laboratory work, which will make your processes more efficient and reliable.

Weighing range: 5 kg  
Read-out: 0,05 g  
Weighing plate: 228x228 mm

For additional information see page 98



KERN DS

### KERN ILS 50K-4 High-resolution laboratory platform scale for the most precise results up to 50 kg

The high-quality finish, exceptional weighing data and extensive configuration package all go to make this range particularly suitable for demanding requirements.

Weighing range: 50 kg  
Read-out: 0,1 g  
Weighing plate: 365x258 mm

For additional information see page 99



KERN ILS/ILJ

### KERN IKT 3K0.01S High-resolution platform scale with stainless steel weighing plate and separate touchscreen display device

Particularly practical when working with toxic, volatile or contaminated substances in glove bags or fume cupboards.

Weighing range: 3 kg  
Read-out: 0,01 g  
Weighing plate: 228x228 mm

For additional information see page 100/101



KERN IKT