

Electronic Precision Balances, KERN

Electronic precision balance KERN PLS/PLJ

Features:

- Ergonomically optimised keypad for left and righthanded users
- Glass draught guard, standard for models with weighing plate sizes Ø 110 mm. Removable metal cover with pipette opening. Weighing space Ø×H 150×60 mm
- only PLJ: Automatic internal adjustment
- only PLS: Adjusting program CAL, for quick setting of the balance accuracy, external test weights at an additional price

Technical data:

Display: Backlit LCD display, digit height 17 mm
 Overall dimensions (W×D×H) 210×340×160 (models with increment 0.001 g, incl. draft shield)

210×340×100 (models with increment 0.01 g)
 210×340×100 (model with increment 0.1 g)

Weighing principle: Strain gauge (only PLS-F and PLJ-F)
 Force compensation (only PLS-A and PLJ-A)

Net weight: approx. 4.5 kg

Permissible ambient temperature: 5°C – 35°C

Model	Increment g	Weighing range g	Platform mm	Order No.
① PLS 420-3F	0.001	420	110	10 58 32421
① PLS 720-3A	0.001	720	110	10 58 31720
① PLS 1200-3A	0.001	1200	110	10 58 31120
② PLS 4200-2F	0.01	4200	160	10 58 31420
② PLS 6200-2A	0.01	6200	160	10 58 32620
② PLS 8000-2A	0.01	8200	160	10 58 31800
③ PLS 20000-1F	0.1	20000	200×175	10 58 32200
① PLJ 420-3F	0.001	420	110	10 58 33421
① PLJ 720-3AM ¹⁾	0.001	720	110	10 58 33721
① PLJ 1200-3A	0.001	1200	110	10 58 33120
② PLJ 4200-2F	0.01	4200	160	10 58 33420
② PLJ 6200-2AM ¹⁾	0.01	6200	160	10 58 33620

¹⁾ 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.

DKD calibration certificate optional available.

Electronic compact balance KERN EMB

Economically-priced entry level laboratory grade model. This model line is characterized by its easy operation, the large LCD for fast, efficient reading of weight values and the integrated robust balance technology. High degree of mobility thanks to compact dimensions and battery operation (battery included). Mains adapter optionally available.

Model	Increment g	Weighing range g	Platform mm	Order No.
④ EMB 100-3	0.001	100	82	10 58 31013
④ EMB 200-3	0.001	20	82	10 58 32013
⑤ EMB 200-2	0.01	200	105	64 58 42202
⑤ EMB 600-2	0.01	600	105	10 58 36002
⑥ EMB 1000-2	0.01	1000	150	10 58 31012
⑥ EMB 2000-2	0.01	2000	150	10 58 32012
⑥ EMB 500-1	0.1	500	150	10 58 35001
⑥ EMB 1200-1	0.1	1200	150	10 58 31200
⑥ EMB 3000-1	0.1	3000	150	10 58 33001
⑥ EMB 6000-1	0.1	6000	150	10 58 36011
⑥ EMB 2200-0	1	2200	150	64 58 42200
⑥ EMB 5.2K1	1	5200	150	10 58 30521
⑥ EMB 5.2K5	5	5200	150	64 58 42525



Electronic compact balance KERN EMB-V

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 the balance ideal for use in schools and universities
- 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:
- Tare the balance by pressing the [TARE] key
- Select density determination mode (solids/fluid)
- Weigh samples/plummet in air
- Weigh samples/plummet in fluid. The density will be shown on the display immediately
- Hook for underfloor weighing provided as a standard
- Particularly flat design
- Ready for use: battery 9 V Block standard. AUTO-OFF function to preserve the batteries, can be switched off

	Model	Increment g	Weighing range g	Platform mm	Order No.
⑦	EMB 200-3V	0.001	200	150	10 58 36203
⑧	EMB 2000-2V	0.01	2000	150	10 58 36202
	Density kit YDB-01 for EMB 200-2V				10 58 36101
	Density kit YDB-02 for EMB 2000-2V				10 58 36102

Electronic precision balance KERN PCB

The new success series in the KERN precision balance programme, which stands out with its quick display and high stability of balance results. The complete series has many useful applications, such as e.g. recipe function (net-gross-balancing), counting function, display of deviation of a reference weight in % instead of in grams, animal weighing function, pre-tare function, adjusting programme CAL, alternative balancing units, battery operation, printout of GLP logs (in connection with printer KERN YKT-01) and much more. All models include a power supply unit as well as a protective cover. Optionally available: internal battery pack for bigger autonomy, LCD-second display for exposed display of balancing results, statistic thermal printer, standard thermal printer, DKD calibration certificate.

	Model	Increment g	Weighing range g	Platform mm	Order No.
⑨	PCB 100-3	0.001	100	81	10 58 31003
⑨	PCB 250-3	0.001	250	81	10 58 32503
⑨	PCB 350-3	0.001	350	81	10 58 33503
⑩	PCB 200-2	0.01	200	105	10 58 32002
⑪	PCB 1000-2	0.01	1000	130×130	10 58 31002
⑪	PCB 2500-2	0.01	2500	130×130	10 58 32502
⑪	PCB 3500-2	0.01	3500	130×130	10 58 33502
⑪	PCB 1000-1	0.1	1000	130×130	10 58 31001
⑪	PCB 2000-1	0.1	2000	130×130	10 58 32001
⑫	PCB 6000-1	0.1	6000	150×170	10 58 36001
⑫	PCB 10000-1	0.1	10000	150×170	10 58 31004
⑫	PCB 6000-0	1	6000	150×170	10 58 36000

Electronic precision balance KERN PFB

- 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 provided as a standard (for models with weighing plate sizes)
- Removable metal cover with pipette opening.
- Weighing space (WxDxH) 158×143×64 mm

	Model	Increment g	Weighing range g	Platform mm	Order No.
⑬	PFB 120-3	0.001	120	80	10 58 37123
⑬	PFB 200-3	0.001	200	80	10 58 37203
⑬	PFB 300-3	0.001	300	80	10 58 37303
	PFB 600-2M	0.01	600	158×143	10 58 37604
⑭	PFB 1200-2	0.01	1200	120	10 58 37122
⑭	PFB 2000-2	0.01	2000	120	10 58 37202
⑭	PFB 3000-2	0.01	3000	120	10 58 37302
⑮	PFB 6K0.05	0.02	6000	155×145	10 58 37605
⑮	PFB 600-1M ¹⁾	0.1	600	158×143	10 58 37603
⑮	PFB 6000-1	0.1	6000	155×145	10 58 37601
⑮	PFB 6000-1M ¹⁾	0.1	6000	158×143	10 58 37602
⑮	PFB 6000-0M ¹⁾	1.0	6000	158×143	10 58 37600

¹⁾ 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.
DKD calibration certificate optional available.



Electronic precision balance KERN KB-N /KB-NM / KBJ

This line is known for its simple operation, whereby the user is guided through the menu by an intuitive YES/NO dialog on the display. The ideal line when a wide weighing range and high readout precision are required. The complete line has many useful applications such as a piece count function, a recipe function (net total weighing), a percent determination function, numerical tare prededuction, alternative weighing units, underfloor weighing device (density analysis), printout functionality for GLP protocols (in conjunction with the Kern YKS-01 printer). With the aid of the freely programmable weighing units (e.g. thread lengths (g/m), paper weight (g/m²), etc., the balances can be set to the individual needs of the application. **NEW** - KERN KBJ with internal automatic adjustment when there are variations in temperature or at defined, time-controlled intervals. Guarantees high degree of accuracy and makes the location irrelevant. All models include a power supply unit as well as a protective cover. Optionally available: external battery pack for bigger autonomy, statistic thermal printer, standard thermal printer, DKD-calibration certificate.

	Model	Increment g	Weighing range g	Platform mm	Order No.
16	KB 120-3N	0.001	120	81	10 58 38123
16	KB 240-3N	0.001	240	81	10 58 38243
16	KB 360-3N	0.001	360	81	10 58 38363
17	KB 1200-2N	0.01	1200	130×130	10 58 38122
17	KB 2000-2N	0.01	2000	130×130	10 58 38202
17	KB 2400-2N	0.01	2400	130×130	10 58 32402
17	KB 3600-2N	0.01	3600	130×130	10 58 38362
17	KB 650-2NM	0.01	650	130×130	10 58 38652
18	KB 10K0.05N	0.05	10000	150×170	10 58 38105
18	KB 6500-1NM	0.1	6500	150×170	10 58 38651
18	KB 10000-1N	0.1	10000	150×170	10 58 38101
19	KBJ 650-2NM ¹⁾	0.01	650	130×130	10 58 38653

¹⁾ 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.
DKD calibration certificate optional available.

Electronic precision balance KERN 572 7 573

The all-around talent when it comes to precision laboratory balances. Thanks to its large range from 0.001 g to 24.100 g, this model line has universal application and is thus ideal for use as a laboratory, counting, reference or control balance. The complete line has many useful applications such as a piece count function, a recipe function (net total weighing), a percent determination function (display of deviation from reference weight in percent), numerical tare prededuction, alternative weighing units, printout functionality for GLP protocols (in conjunction with the Kern YKT-01 printer) and much more. With the aid of the freely programmable weighing units (e.g. thread lengths (g/m), paper weight (g/m²), etc., the balance can be set to the individual needs of the application. All models include a power supply unit as well as a protective cover. Optionally available: external battery pack for bigger autonomy, statistics thermal printer, standard thermal printer, DKD-calibration certificate.

	Model	Increment g	Weighing range g	Platform mm	Order No.
20	572-30	0.001	241	105	10 58 37230
20	572-31	0.001	301	105	10 58 37231
20	572-32	0.001	421	105	10 58 37232
21	572-33	0.01	1610	150	64 58 57233
21	572-35	0.01	2410	150	64 58 57235
21	572-37	0.01	3010	150	10 58 37237
21	572-39	0.01	4210	150	10 58 37239
22	572-43	0.1	10100	160×200	10 58 37243
22	572-45	0.05	12100	160×200	64 58 57245
22	572-49	0.1	16100	160×200	64 58 57249
22	572-55	0.05	20100	160×200	10 58 37255
22	572-57	0.1	24100	160×200	64 58 57257
	573-34NM ¹⁾	0.01	650	150	10 58 37334
22	573-46NM ¹⁾	0.1	6500	160×200	10 58 37346

¹⁾ Can be calibrated. 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.



16



17



18



19



20



21



22



Electronic precision balance KERN EW- / EG-N

The EU-verifiable KERN EW-N/EG-N line of laboratory balances is ideal for use as a laboratory, dental or gold balance, thanks to its incredible resolution. Both lines have many useful applications such as a counting function, a recipe function (net total weighing), a percent determination function (display of deviation from reference weight in percent), balances with tolerance ranges (free entry of limit values; an optical display signal then assists in metering/sorting), alternative weighing units, underfloor weighing device (for determining density), printout functionality for GLP logs (in conjunction with the Kern YKS-01 printer) and much more. All important information can be easily read on the main LCD with integrated capacity indicator. The models of the KERN EG-N line feature a convenient internal calibration switch. Both model lines are standardly equipped with an integrated RS-232C data interface, a protective cover, a power supply unit and a wind guard with removable cover and pipetting opening. Optionally available: internal battery pack for bigger autonomy, a statistics thermal printer, standard thermal printer, glass wind guard with 3-glass sliding doors, calibration certificate, as well as DKD calibration certificate.

	Model	Increment g	Weighing range g	Platform mm	Order No.
23	EW 220-3 NM	0.001	220	118	64 58 12203
23	EW 420-3 NM	0.001	420	118	64 58 14203
23	EW 620-3 NM	0.001	620	118	64 58 16203
24	EW 820-2 NM	0.01	820	170×142	64 58 18202
24	EW 2200-2 NM	0.01	2200	180×160	64 58 12202
24	EW 4200-2 NM	0.01	4200	180×160	64 58 14202
24	EW 6200-2 NM	0.01	6200	180×160	64 58 16202
24	EW 12000-1 NM	0.1	12000	180×160	64 58 12000
23	EG 220-3 NM ¹⁾	0.001	220	118	64 58 22203
23	EG 420-3 NM ¹⁾	0.001	420	118	64 58 24203
23	EG 620-3 NM ¹⁾	0.001	620	118	64 58 26203
24	EG 2200-2 NM ¹⁾	0.01	2200	180×160	64 58 22202
24	EG 4200-2 NM ¹⁾	0.01	4200	180×160	64 58 24202

¹⁾ 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.

DKD calibration certificate optional available.

Electronic precision balance KERN EWJ

Features:

- Concept of easy use: All primary functions have their own key on the keypad
- Automatic internal adjustment time-controlled every 4 hours. Guarantees high degree of accuracy and makes the location irrelevant
- Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- Compact size, practical for small spaces
- Capacity display: A bar lights up to show how much of the weighing range is still available
- Draft shield with removable cover and opening for using a pipette standard for models with weighing plate sizes Ø 80 mm, weighing space (WxDxH) 145×160×80 mm
- RS-232 and USB interfaces for transferring weighing data to the PC, printer, USB sticks etc.

Functions:

- Automatic internal adjustment
- RS-232 interface
- Piece counting
- Per cent determination
- Mains adapter
- Strain gauges
- 2 years' warranty
- Battery mode (optional)
- DKD calibration (optional)
- Calibration (optional)
- Technical data

Technical data:

Backlit LCD display, digit height 16.5 mm

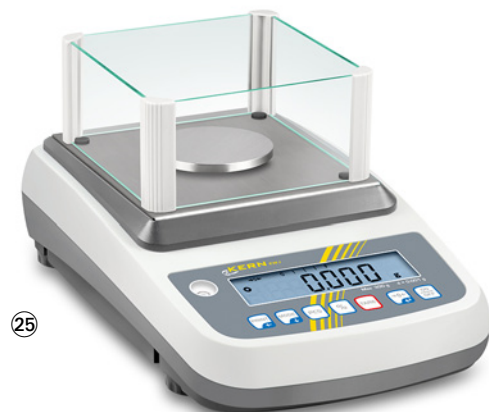
Dimensions weighing plate (stainless steel)

Total dimensions, without draft shield (WxDxH) 220×315×90 mm

Net weight: 2.2 kg

Permissible ambient temperature range: -5 °C to 40 °C

	Model	Increment g	Weighing range g	Platform mm	Order No.
25	EWJ 300-3	0.001	300	145×160	10 58 39303
25	EWJ 600-2M	0.01	600	145×160	10 58 39602
25	EWJ 6000-1M	0.1	6000	145×160	10 58 39601



Electronic precision balance KERN PET

- 2 infrared sensors: to initiate functions such as TARE, zeroing, printing, starting or aborting adjustment, calling up database or menu and much more, without having to touch the balance - just give it a wave!
- 3 rapid assign keys: for frequently recurring applications, functions, settings or memories - Difference calculation: Weighing a sample before and after a machining process and automatic output of the difference value
- High level of connectivity: 1 x Ethernet, 2 x RS-232, 2 x USB, 1 x additional display, digital I/O interface (4 in / 4 out), e. g. for data exchange or connection of barcode or RFID scanners for quick recall of stored items
- Individual user settings can be stored: user name and number, password, authorizations, menu language, user profiles
- Additional guest mode for users who are not logged in
- Intuitive operation, increases efficiency and saves costs: Easy capture of item data at the PC, recall of items on the balance using the connected barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory.
- Statistical function for statistical analysis of series of measurements. Graphic display of measurements can be used by the operator to check and evaluate the results
- Intuitive pipette calibration in accordance with ISO 8655 to guarantee pipette volumes and to minimise the risks in the daily work with your pipettes
- Electronic level indicator continuously checks the position of the balance, sounds an alarm when the device is out of balance and gives visual instructions on how to correct the situation
- Individual print formats: up to 16 printouts which can be edited easily at the PC
- Convenient recipe-weighing: complete recipes with all recipe ingredients and associated target values, names, tolerances, tare weights etc. can be stored. If one recipe ingredient is more than it should be, then the practical back calculation function automatically calculates the new target weights of the other ingredients
- A 1 GB database with optional software can be filled in easily at the PC. Particularly beneficial when counting a large number of individual items, as part of a stocktake, for checkweighing, recording recipes etc.
- Data exchange via USB to download software updates, export weighing results, export/import databases, balance settings, data exchange between individual balances and much more
- Innovative touchscreen: Large backlit and touch-sensitive LCD screen with digit height 21 mm, screen diagonal 5.7" (approx. 145 mm), WxH 115x86 mm.



	Model	Increment g	Weighing range g	Order No.
26	PET 1000-3M ¹⁾	0.001	1000	10 58 39103
	PET 2000-2M ¹⁾	0.01	2500	10 58 39252
27	PET 6000-2M ¹⁾	0.01	6000	10 58 39604
	PET 600-3M ¹⁾	0.001	600	10 58 39603

¹⁾ 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.

DKD calibration certificate optional available.

Accessories

	Article	Order No.
	Protective working cover standard KERN PLJ-A01	10 58 35021
	can be reordered	
	Hook for underfloor weighing KERN PLJ-A02	10 58 35022
	to weigh hanging loads	
28	Standard printer KERN YKB-01N	10 58 35005
29	Dot matrix printer KERN YKN-01	10 58 35501
30	Statistics printer KERN YKS-01	10 58 35004