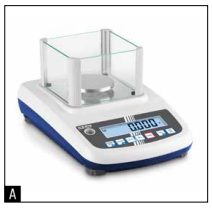
Compact Laboratory Balance KERN PFB

FACE LIFT BASIC ★


A


B

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 ⌀ 80 mm
  - B ⌀ 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: CAL EXT, RS 232, KCP PROTOCOL, GLP PRINTER, PCS, RECIPE, PERCENT, UNIT, TOL, MOVE, MULTI, DMS, 1 DAY
OPTION: DAkkS +3 DAYS
FACTORY: BT, ACCU

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

NEW **New model**

BALANCES & TEST SERVICE 2024

KERN Pictograms

Internal adjusting
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)

Adjusting program CAL
For quick setting up of the balance's accuracy. External adjusting weight required

EasyTouch
Suitable for the connection, data transmission and control through PC or tablet

Memory
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.

Alibi memory
Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.

KERN Universal Port (KUP)
allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort

RS-232 Data interface
To connect the balance to a printer, PC or network

RS-485 Data interface
To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible

USB Data interface
To connect the balance to a printer, PC or other peripherals

Bluetooth* Data interface
To transfer data from the balance to a printer, PC or other peripherals

WIFI Data interface
To transfer data from the balance to a printer, PC or other peripherals

Control outputs
(optocoupler, digital I/O)
To connect relays, signal lamps, valves, etc.

Analogue interface
to connect a suitable peripheral device for analogue processing of the measurements

Interface for second balance
For direct connection of a second balance

Network interface
For connecting the scale to an Ethernet network

KERN Communication Protocol (KCP)
It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems

GLP/ISO log intern
The balance displays weight, date and time, independent of a printer connection

GLP/ISO log Printer
With weight, date and time. Only with KERN printers.

Piece counting
Reference quantities selectable.
Display can be switched from piece to weight

Recipe level A
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out

Recipe level B
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display

Totalising level A
The weights of similar items can be added together and the total can be printed out

Percentage determination
Determining the deviation in % from the target value (100 %)

Weighing units
Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details

Weighing with tolerance range (Checkweighing)
Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model

Hold function
(Animal weighing program)
When the weighing conditions are unstable, a stable weight is calculated as an average value

Protection against dust and water splashes IPxx
The type of protection is shown in the pictogram

Suspended weighing
Load support with hook on the underside of the balance

Battery operation
Ready for battery operation. The battery type is specified for each device

Rechargeable battery pack
Rechargeable set

Universal plug-in power supply
with universal input and optional input socket adapters for
A) EU, CH, GB
B) EU, CH, GB, US
C) EU, CH, GB, US, AUS

Plug-in power supply
230V/50Hz in standard version for EU, CH.
On request GB, USA or AUS version available

Integrated power supply unit
Integrated in balance.
230V/50Hz standard EU.
More standards e.g.
GB, USA or AUS on request

Weighing principle Strain gauges
Electrical resistor on an elastic deforming body

Weighing principle Tuning fork
A resonating body is electromagnetically excited, causing it to oscillate

Weighing principle Electromagnetic force compensation
Coil inside a permanent magnet. For the most accurate weighings

Weighing principle Single cell technology
Advanced version of the force compensation principle with the highest level of precision

Conformity Assessment
The time required for conformity assessment is specified in the pictogram

DAkkS calibration possible (DKD)
The time required for DAkkS calibration is shown in days in the pictogram

Factory calibration (ISO)
The time required for Factory calibration is shown in days in the pictogram

Package shipment
The time required for internal shipping preparations is shown in days in the pictogram

Pallet shipment
The time required for internal shipping preparations is shown in days in the pictogram