PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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# KERN PKS 600-2

Flexible precision balance for laboratories and the pharmaceutical industry

ENGLISH




## CONTACT

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## FEATURES

- Wide range of functions, including statistics function, weighing with tolerance range, counting and density determination function and many more
- Internal memory for complete recipes with name and target value of the recipe ingredients
- The different ingredients of a mixture can be weighed in with the recipe function. In the event of overdosing, recalculation is possible. User guidance through display
- Individual settings can be stored for up to 10 users. Restricted access for users who are not logged in
- Extensive range of variants with different dimensions and resolutions
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- The KERN Universal Port (KUP) enables the exchange of data and control commands using several interfaces such as USB, Bluetooth, WiFi or Ethernet using the plug-and-play principle
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- GLP/ISO record keeping with date, time and identification number of balance adjustment or weighing process
- USB host compatible for easy operation using a USB keyboard or barcode scanner, e.g. for navigating through the menu or entering recipe data
- Additional data can be entered quickly and conveniently using the keyboard, for example batch IDs, in order to assign weights to specific batches or similar and make them traceable
- As an alternative to a keyboard, the user can connect other devices, for example a barcode scanner, using a USB host
- CAL adjustment program for adjusting precision, external test weights available separately

## TECHNICAL DATA

- LCD graphic-Display with help text for simplified user guidance, digit height 21 mm
- Dimensions weighing surface, stainless steel, W×D 131×131 mm
- Overall dimensions 315×205×95 mm
- Net weight approx. 2,0 kg
- Permissible ambient temperature 5 °C/35 °C

## MAIN SCOPE OF APPLICATIONS

- Laboratories
- Pharmaceutical industry
- Quality laboratories

## PICTOGRAMS

Standard




Option




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## MODEL OVERVIEW

| Model | Weighing capacity [Max] | Readability [d] | Reproducibility | Linearity | Dimensions weighing surface |
|---|---|---|---|---|---|
| PKS 300-2 | 300 g | 0,01 g | 0,01 g | ± 0,02 g | 131×131 mm |
| PKS 600-2 | 600 g | 0,01 g | 0,01 g | ± 0,03 g | 131×131 mm |
| PKS 1000-1 | 1200 g | 0,1 g | 0,1 g | ± 0,3 g | 131×131 mm |
| PKS 2000-1 | 2500 g | 0,1 g | 0,1 g | ± 0,3 g | 131×131 mm |
| PKS 4000-1 | 4200 g | 0,1 g | 0,1 g | ± 0,2 g | 180×170 mm |
| PKS 6000-0 | 6200 g | 1 g | 1 g | ± 2 g | 180×170 mm |
| PKS 6000-1 | 6200 g | 0,1 g | 0,1 g | ± 0,2 g | 180×170 mm |
| PKS 10K-4 | 10000 g | 0,1 g | 0,1 g | ± 0,2 g | 180×170 mm |
| PKS 10K-5 | 10000 g | 0,05 g | 0,05 g | ± 0,15 g | 180×170 mm |

## ACCESSORIES

| Model | Description |
|---|---|
| CFS-A03 | Signal lamp KERN CFS-A03 |
| KUP-01 | RS-232 interface KUP-01 |
| KUP-03 | Interface USB-Device KUP-03 |
| KUP-04 | Ethernet interface KUP-04 |
| KUP-05 | WiFi interface KUP-05 |

| Model | Description |
|---|---|
| KUP-06 | Bluetooth BLE interface KUP-06 |
| KUP-13 | Extension box KUP-13 |
| YBA-A13 | Protective working cover YBA-A13 |
| YBA-A13S05 | Protective working cover YBA-A13S05, scope of delivery: 5 items |
| YKA-27 | Power adapter YKA-27 (5,9V, 1A \| 100 V - 240 V, 50 / 60 Hz \| EURO, UK, US, CH) |
| YKC-01 | Thermal printer YKC-01 |
| YKG-01 | Dot Matrix Printer YKG-01 |
| YKH-01 | Thermal printer YKH-01 |
| YKR-01 | Rechargeable battery pack YKR-01 |
| YKT-01 | Needle printer YKT-01 |
| YKX-A10 | USB keyboard YKX-A10 |
| YKX-A20 | USB keyboard YKX-A20 |
| YKX-A30 | Barcode scanner YKX-A30 |



## SOFTWARE

| Model | Description |
|---|---|
| SCD-4.0-DL | Software SCD-4.0-DL (Scope of supplies: Download link for 1 license) |
| SCD-4.0-DLS05 | Software SCD-4.0-DLS05 (Scope of supplies: Download link for 5 licenses) |
| SCD-4.0-PRO-DL | Software SCD-4.0-PRO-DL (Scope of supplies: Download link for 1 license) |
| SCD-4.0-PRO-DL-AS05 | Software SCD-4.0-PRO-DL-AS05 (Scope of supplies: Download link for 5 licenses) |
| SET-01 | Software KERN EasyTouch SET-01-2025a Base |
| SET-01 | Software KERN EasyTouch SET-01 Base |
| SET-04 | Software KERN EasyTouch SET-04-2025a Density |
| SET-04 | Software KERN EasyTouch SET-04 Density |
| SET-05 | Software KERN EasyTouch SET-05-2025a Dynamic |
| SET-05 | Software KERN EasyTouch SET-05 Dynamic |
| SET-06 | Software KERN EasyTouch SET-06-2025a Classification |
| SET-06 | Software KERN EasyTouch SET-06 Classification |
| SET-07 | Software KERN EasyTouch SET-07-2025a Variable |
| SET-07 | Software KERN EasyTouch SET-07 Variable |
| SET-08 | Software KERN EasyTouch SET-08-2025a Take-out |

| Model | Description |
|---|---|
| SET-08 | Software KERN EasyTouch SET-08 Take-out |
| SET-10 | Software KERN EasyTouch SET-10 Save Server |
| SET-11 | Software KERN EasyTouch SET-11-2025a Safety |
| SET-11 | Software KERN EasyTouch SET-11 Safety |
| SET-14 | Software KERN EasyTouch SET-14-2025a Individual Print |
| SET-14 | Software KERN EasyTouch SET-14 Individual Print |
| SET-16 | Software KERN EasyTouch SET-16-2025a Batch and Statistics |
| SET-16 | Software KERN EasyTouch SET-16 Batch and Statistics |
| SET-17 | Software KERN EasyTouch SET-17-2025a PrePack |
| SET-17 | Software KERN EasyTouch SET-17 PrePack |
| SET-18 | Software KERN EasyTouch SET-18-2025a Container Master |
| SET-18 | Software KERN EasyTouch SET-18 Container Master |
| SET-21 | Software KERN EasyTouch SET-21-2025a Formulation |
| SET-21 | Software KERN EasyTouch SET-21 Formulation |
| SET-22 | Software KERN EasyTouch SET-22-2025a Difference |
| SET-22 | Software KERN EasyTouch SET-22 Difference |
| SET-31 | Software KERN EasyTouch SET-31-2025a Tolerance |
| SET-31 | Software KERN EasyTouch SET-31 Tolerance |
| SET-32 | Software KERN EasyTouch SET-32-2025a Count |
| SET-32 | Software KERN EasyTouch SET-32 Count |
| SET-33 | Software KERN EasyTouch SET-33-2025a Target Count |
| SET-33 | Software KERN EasyTouch SET-33 Target Count |
| SET-35 | Software KERN EasyTouch SET-35-2025a Assembly Count |
| SET-35 | Software KERN EasyTouch SET-35 Assembly Count |
| SET-37 | Software KERN EasyTouch SET-37-2025a Export Manager |
| SET-37 | Software KERN EasyTouch SET-37 Export Manager |
| SET-39 | Software KERN EasyTouch SET-39 Data Interface |
| SET-40 | Software KERN EasyTouch SET-40 Protect |
| SET-46 | Software KERN EasyTouch SET-46-2025a Backup Scheduler |
| SET-46 | Software KERN EasyTouch SET-46 Backup Scheduler |
| SET-51 | Software KERN EasyTouch SET-51-2025a Audit Logs |

| Model | Description |
|---|---|
| SET-51 | Software KERN EasyTouch SET-51 Audit Logs |
| SET-52 | Software KERN EasyTouch SET-52-2025a Inventory |
| SET-52 | Software KERN EasyTouch SET-52 Inventory |
| SET-261 | Software KERN EasyTouch SET-261 Audio Management |
| SET-311 | Software KERN EasyTouch SET-311-2025a Quick Key |
| SET-311 | Software KERN EasyTouch SET-311 Quick Key |
| SET-411 | Software KERN EasyTouch SET-411-2025a Hotkeys |
| SET-411 | Software KERN EasyTouch SET-411 Hotkeys |

## SERVICES

| Model | Description |
|---|---|
| 963-127 | DAkkS calibration certificate 963-127 |
| 969-517 | Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517 |
| 970-017 | Warranty extension (+3 years) 970-017 |

# KERN Pictogram Overview

| | |
|---|---|
|  | External adjustment: Adjusting accuracy using external adjustment weight |
|  | Memory: Device-internal memory capacity, e.g. for article data, measuring data, tare weights, PLU etc. |
|  | KERN IoT-Line balances – smart weighing solutions for the digital future |
|  | Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc. |
|  | KERN Universal Port (KUP): allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, USB, Bluetooth, WiFi, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort |
|  | KERN Communication Protocol (KCP): 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 protocol: The measuring device generates a GLP-compliant printout |
|  | Value & time: The measuring device displays the value, date, and time, regardless of the connected printer |
|  | Piece counting: Reference quantities selectable. Display can be switched from piece to weight |
|  | Formulation: Internal memory for complete recipes with name and target value of recipe components. Display-supported user guidance |
|  | Sum function: The weight values of weighed items can be added together and the total printed out |
|  | User management: The measuring device allows password-protected user profiles with different authorization levels to be created |
|  | Percentage determination: determining the deviation in % from the target value (100 %) |
|  | Units can be switched to e.g. non-metric units |
|  | Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal |
|  | Hold function: When the weighing conditions are unstable, a stable weight is calculated as an average value |
|  | Suspended weighing: Load support with hook on the underside of the balance |
|  | Battery operation: Ready for battery operation |
|  | Universal plug-in power supply: With universal input and optional input socket adapters for EU, CH, GB or EU, CH, GB, US or EU, CH, GB, US, AUS |
|  | Weighing principle Strain gauges: Electrical resistor on an elastic deforming body |
|  | Package shipment by courier service: The duration of internal product provision is one day |
|  | EasyTouch: Suitable for the connection, data transmission and control through PC or tablet |
|  | Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible |

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| | |
|---|---|
| | Data Interface USB: For connection to printers, PCs or other peripheral devices |
| | Data interface Bluetooth: For connection to printers, PCs or other peripheral devices |
| | Data interface WiFi: For data transfer to printers, PCs or other peripheral devices |
| | Network interface: For connecting the measuring device to an Ethernet network |
| | Rechargeable battery pack: Rechargeable set |
| DAkkS | Accredited calibration (DKD): The duration of the accredited calibration is 3 working days |