PROFESSIONAL MEASURING
SINCE 1844

KERN

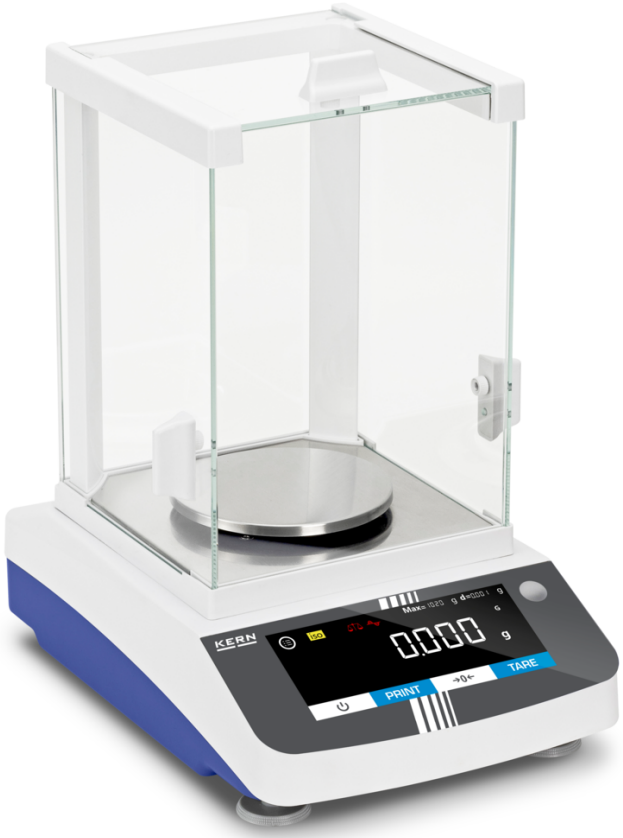
Product brochure

31.10.2026

KERN PDS 1000-3

Precision balance with flexible functionality and touch display

ENGLISH



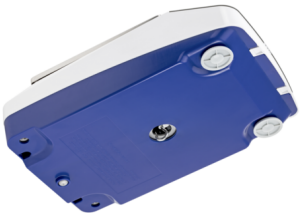
CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

+49 7433 9933-0
info@kern-sohn.com
www.kern-sohn.com







APPLICATION EXAMPLE



ENGLISH

FEATURES

- The wide range of functions of this range of precision balances means that they qualify for use in the pharmaceutical industry as well as other fields. These include, for example, the statistical function, weighing with tolerance range, counting function, percentage weighing, totalizing function and many more
- Modern touch display with convenient operation enables you to, for example, switch the units or start adjustment straight from the display
- The Windows Direct function allows weights to be transferred directly from the balance to a Windows application via a USB device connection, without the need for manual entry
- Draught shield standard, Weighing space W×D×H 174×162×228 mm
- GLP/ISO record keeping with date, time and identification number of balance adjustment or weighing process
- Assists in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- Underfloor weighing: load support on the underside of the balance for models. Loop for underfloor weighing, standard
- RS-232 data interface and USB (Device) for the transfer of weighing data
- Menu language EN

TECHNICAL DATA

- Backlit LCD display, digit height 20 mm
- Dimensions weighing surface, stainless steel, ⌀ 115 mm
- Overall dimensions W×D×H 213×322×360 mm
- Net weight approx. 6 kg
- Permissible ambient temperature 15 °C/25 °C

MAIN SCOPE OF APPLICATIONS

- Laboratories
- Pharmaceutical applications
- Quality control
- Chemical industry
- Food industry
- Plastics technology

PICTOGRAMS

Standard



Option



MODEL OVERVIEW

Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Dimensions weighing surface
PDS 300-3	320 g	0,001 g	0,003 g	± 0,003 g	115 mm
PDS 600-3	620 g	0,001 g	0,003 g	± 0,003 g	115 mm
PDS 1000-3	1020 g	0,001 g	0,004 g	± 0,005 g	115 mm
PDS 2000-2	2200 g	0,01 g	0,03 g	± 0,03 g	185×185 mm
PDS 4000-2	4200 g	0,01 g	0,03 g	± 0,03 g	185×185 mm
PDS 6000-2	6200 g	0,01 g	0,03 g	± 0,05 g	185×185 mm
PDS 10K-5	10200 g	0,01 g	0,03 g	± 0,03 g	185×185 mm

ACCESSORIES

Model	Description
316-11	Test weight 316-11 (OIML Class E2, Nominal value 1 kg, Compact form, stainless steel polished)
572-926	RS232 interface cable 572-926
ABP-A01	Ioniser ABP-A01
ABS-A08	Protective dust cover ABS-A08
YBA-A24S05	Screen protector YBA-A24S05
YBI-01A	Ioniser YBI-01A
YKC-01	Thermal printer YKC-01
YKG-01	Dot Matrix Printer YKG-01
YKH-01	Thermal printer YKH-01
YKI-10	RS232-Ethernet adapter YKI-10 (RS-232 standard, Ethernet, RS-485)
YKI-11	RS232-Ethernet adapter YKI-11 (Ethernet, RS-232 standard - 2x)
YKI-12	RS232-WiFi adapter YKI-12
YKT-01	Needle printer YKT-01
YPS-03	Antivibration table YPS-03
YPS-04	Anti-vibration plate KERN YPS-04 (400×450×60 mm, 30 kg)
YPS-05	Anti-vibration plate KERN YPS-05 (565×450×60 mm, 42 kg)

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)

SERVICES

Model	Description
963-103	DAkkS calibration certificate 963-103
969-517	Confirmation of the manufacturer’s specification (only in combination with DAkkS calibration certificate)969-517
970-109	Warranty extension (+2 years) 970-109

KERN Pictogram Overview

	External adjustment: Adjusting accuracy using external adjustment weight
	Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible
	Data Interface USB: For connection to printers, PCs or other peripheral devices
	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
	Net total: The weight values of the recipe ingredients can be added up and the total weight of the recipe printed out
	Sum function: The weight values of weighed items can be added together and the total printed out
	Density determination: The density of liquids and solids with a density of ≤ /≥ 1 is determined directly in the measuring device
	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
	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 electromagnetic force compensation: Coil inside a permanent magnet. For the most accurate weighings
	Package shipment by courier service: The duration of internal product provision is one day
	Accredited calibration (DKD): The duration of the accredited calibration is 3 working days

ENGLISH