PROFESSIONAL MEASURING
SINCE 1844

KERN

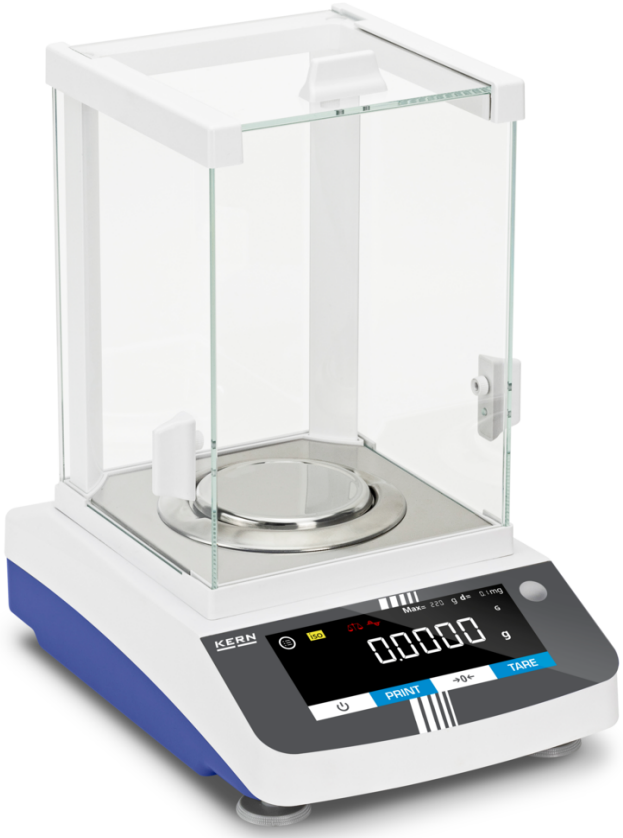
Product brochure

31.10.2026

# KERN ADT 200-4

Analytical balance with flexible functionality and touch display

ENGLISH




## CONTACT

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## APPLICATION EXAMPLE





## FEATURES

- The wide range of functions of this range of analytical 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
- Specialised functions, such as the statistical function make it easier to use efficiently in industry and the laboratory
- 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
- 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, ø 90 mm
- Overall dimensions W×D×H 207×318×360 mm
- Net weight approx. 6 kg
- Permissible ambient temperature 15 °C/25 °C

## MAIN SCOPE OF APPLICATIONS

- Laboratories
- Microanalysis
- Pharmaceutical applications
- Material testing
- Precision engineering
- Research and development
- Chemical industry
- Food industry
- Plastics industry
- Quality laboratories

## PICTOGRAMS

Standard




Option




## MODEL OVERVIEW

| Model | Weighing capacity [Max] | Readability [d] | Reproducibility | Linearity | Dimensions weighing surface |
|---|---|---|---|---|---|
| ADT 100-4 | 120 g | 0,0001 g | 0,0003 g | ± 0,0003 g | 90 mm |
| ADT 200-4 | 220 g | 0,0001 g | 0,0003 g | ± 0,0003 g | 90 mm |
| ADT 300-4 | 320 g | 0,0001 g | 0,0004 g | ± 0,0004 g | 90 mm |

## ACCESSORIES

| Model | Description |
|---|---|
| 315-108-104 | Safety set 315-108-104, included weight 10 g (E2); 200 g (E2) |
| 316-08 | Test weight 316-08 (OIML Class E2, Nominal value 200 g, Compact form, stainless steel polished) |

| Model | Description |
|---|---|
| 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 |
| YDB-03 | Density determination set YDB-03 |
| 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 |
|---|---|
| 963-101 | DAkkS calibration certificate 963-101 |
| 965-411 | Assembly of components 965-411 (< 50kg) |
| 969-517 | Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517 |
| 970-108 | Warranty extension (+2 years) 970-108 |

# KERN Pictogram Overview

| | |
|---|---|
|  | Internal adjustment: Adjusting accuracy using internal 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 |
|  | 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 |

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