PROFESSIONAL MEASURING
SINCE 1844

KERN

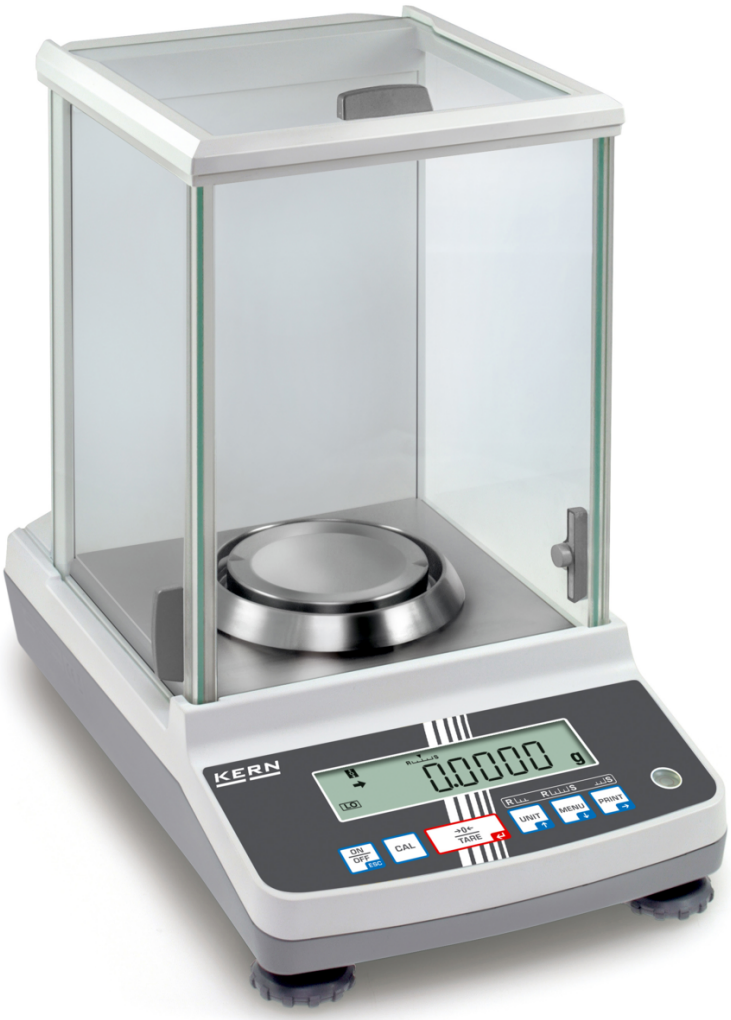
Product brochure

30.10.2026

KERN ACJ 100-4M

The bestseller in analytical balances, with high-quality single-cell weighing system, verification optional

ENGLISH



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FEATURES

- Automatic internal adjustment in the case of a change in temperature ≥ 2 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- Dosage aid: High stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Automatic data output to the PC/printer each time the balance is steady
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Protective working cover included with delivery

TECHNICAL DATA

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel, ⌀ 91 mm
- Weighing space W×D×H 174×162×227 mm
- Overall dimensions 213×333×338 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C/30 °C

MAIN SCOPE OF APPLICATIONS

- Pharmacies (non-medical)
- Food analysis
- Environmental analysis
- Chemical industry
- Research and development

PLEASE NOTE FOR YOUR ORDER

- For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order, the initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification

PICTOGRAMS

Standard



Option



Factory



MODEL OVERVIEW

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Reproducibility	Linearity	Dimensions weighing surface
ACJ 80-4M	82 g	0,0001 g	0,001 g	0,01 g	0,0002 g	± 0,0003 g	91 mm
ACJ 100-4M	120 g	0,0001 g	0,001 g	0,01 g	0,0002 g	± 0,0003 g	91 mm
ACJ 200-4M	220 g	0,0001 g	0,001 g	0,01 g	0,0002 g	± 0,0003 g	91 mm
ACJ 300-4M	320 g	0,0001 g	0,001 g	0,01 g	0,0002 g	± 0,0003 g	91 mm

ACCESSORIES

Model	Description
315-107-103	Safety set 315-107-103, included weight 5 g (E2); 100 g (E2)
316-07	Test weight 316-07 (OIML Class E2, Nominal value 100 g, Compact form, stainless steel polished)
ABP-A01	Ioniser ABP-A01
ABS-A08	Protective dust cover ABS-A08
ACS-A02	Protective working cover ACS-A02
ACS-A02S05	Protective working cover ACS-A02S05, scope of delivery: 5 items
DBS-A04	USB 2.0 cable DBS-A04
MLB-A05	RS232 interface cable MLB-A05
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)

Model	Description
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
965-201	Verification / Conformity assessment according to NAWI (2014/31/EU) 965-201
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
970-107	Warranty extension (+2 years) 970-107

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
	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
	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 single cell technology: Advanced version of the force compensation principle with the highest level of precision
	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
	Conformity assessment: The duration of the conformity assessment is 3 working days

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