

PRODUCT BROCHURE

KERN EG 420-3NM

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ENGLISH



The classic balance with robust tuning fork measuring system

CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

Phone : +49 7433 9933-0
Fax : +49 7433 9933-149
Email : info@kern-sohn.com
Web : www.kern-sohn.com



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information

DESCRIPTION

- Internal adjustment in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- Stable temperature behaviour
- Short stabilisation time
- Shock proof construction
- High corner load performance
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- Totalising of pieces when counting
- Draught shield standard, weighing space W×D×H 158×130×78 mm
- Protective working cover included with delivery

SPECIFICATIONS

Article codes, product groups & Status information

Model article-code	EG 420-3NM
Model-Serie	EG
Assortment	KERN
Product Type	Laboratory balances
Product group	Precision balances
Product usage type	Main article
EAN code (Model)	4045761212626
Predecessor Model	EG 420-3NM-2017a
Customs tariff number	90160010
CE Label	yes

Technical data - Primary

Weighing capacity	420 g
Readability	0.001 g
Repeatability	0.001 g

Linearity ± 0.003 g

Minimum piece weight 10 mg

Weighing surface (d) 118 mm

Technical data - Construction

Dimension housing (W×D×H) 180×235×75 mm

Bubble Level yes

Material weighing plate stainless steel

Revolving screw feet yes

Casing material plastic

Weighing surface (d) 118 mm

Dimensions of weighing plate (diameter) 118 mm

Material draft shield plastic

Technical data - Display

Display height 17 mm

Backlight yes

Technical data - Power supply

Mains adapter/adapter included	AUS;CH;EURO;UK;US
Charging time	12 h
Input Voltage	220 V - 240 V AC, 50 Hz
Rechargeable battery	Rchrg. battery optional

Technical data - Measuring system

Calibration method	Adjusting with internal weight (manual)
Linearity	± 0.003 g
Minimum weight (USP)	2 g
Readability	0.001 g
Repeatability	0.001 g
Stabilisation time under laboratory conditions	3 s
Warm up time	4 h
Carat - max capacity	2100 ct
Carat - readout	0.01 ct

Technical data - Environmental conditions

Maximum humidity	80 %
Maximum operating temperature	30 °C
Minimum ambient temperature	10 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H)	400×320×220 mm
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Gross weight 3.4 kg

Net weight 1.8 kg

Shipping method Parcel service

Packaging component - by weight - paper 165 g

Packaging component - by weight - cardboard 905 g

Packaging component - by weight - plastics 30 g

Packaging component - by weight - styrofoam 0 g

Packaging component - by weight - glass 0 g

Packaging component - by weight - wood 0 g

Packaging component - by weight - foam 100 g

Packaging component - by weight - metal 0 g

Delivery time 1 d

Technical data - Counting data

Counting resolution 420000

Minimum piece weight at piece counting (Laboratory) 1 mg

Minimum piece weight 10 mg

Technical data - Verification

Verification value (e) 0.01 g

Minimum load (Min) 0.02 g

Verification by KERN possible yes

Verification class II

Technical data - Illumination

Draft shield optionally available yes

Technical data - Moisture analyzing

Draft shield optionally available yes

Optional Services

DAkkS Calibration	963-127
Verification	965-216

FUNCTIONS

Standard



Option



Factory



ACCESSORIES

Model	Description
EG-A03	Large glass draught shield EG-A03
EG-A04	Internal Rechargeable Battery Pack KERN EG-A04
EG-A05	Protective Working Cover KERN EG-A05
EG-A07	Suspended weighing KERN EG-A07

Model	Description
911-013	Matrix needle printer KERN 911-013
YKI-01	RS-232 / Ethernet adapter KERN YKI-01
YKN-01	Matrix needle printer KERN YKN-01
YKI-02	RS-232 / Bluetooth adapter KERN YKI-02
AFH 13	Converter KERN AFH 13
YKG-01	Dot Matrix Printer KERN YKG-01
YKH-01	Thermal printer KERN YKH-01
474-926	Interface cable 474-926
315-208-205	Safety Set KERN 315-208-205
YPS-03	Antivibration table YPS-03
YPS-04	Antivibration plate KERN YPS-04
YPS-05	Antivibration plate KERN YPS-05
YKA-03N	Power Adapter KERN YKA-03N
YKC-01	Thermal printer KERN YKC-01
SCD-4.0-PRO-DL-AS05	Software KERN BalanceConnection SCD-4.0-PRO-DL-AS05
SCD-4.0-DLS05	BalanceConnection Standard KERN SCD-4.0-DLS05

SERVICES

Model	Description
965-216	Verification / Conformity assessment according to NAWI (2014/31/EU) KERN 965-216
963-127	DAkkS Calibration KERN 963-127
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate) 969-517
970-106	Warranty extension KERN (+2 years) 970-106

SPARE PARTS

Model	Description
EG-A04	Internal Rechargeable Battery Pack KERN EG-A04
EG-A05	Protective Working Cover KERN EG-A05
REWN-5001	Power socket REWN-5001
REWN-06-004	Metal plate: High accuracy of measurement due to the level metal plate REWN-06-004
REWN-01-001	LCD Screen REWN-01-001

Model	Description
REWN-02-001	Weighing plate KERN REWN-02-001
REWN-03-001	Weighingplate carrier KERN REWN-03-001
REWN-04-001	Rubber shock absorber KERN REWN-04-001
REWN-05-001	Base plate KERN REWN-05-001
REWN-06-002	rubber foot KERN REWN-06-002
REWN-06-003	Adjustable base foot REWN-06-003
REWN-07-001	Simultaneous measurement on up to four channels. External sensors with sensor data memory, optionally available REWN-07-001
REWN-07-002	Simultaneous measurement on up to four channels. External sensors with sensor data memory, optionally available REWN-07-002
REWN-09-001	Level bubble REWN-09-001
REWN-4003	Keyboard overlay KERN REWN-4003
REGA-4001	Display overlay REGA-4001
REGA-2002	Main PCB REGA-2002
YKA-50	Power Adapter KERN YKA-50
YKA-03N	Power Adapter KERN YKA-03N

SOFTWARES

Model	Description
SCD-4.0-DL	BalanceConnection Standard KERN SCD-4.0-DL
SCD-4.0-PRO-DL	Software KERN BalanceConnection SCD-4.0-PRO-DL

RELATED ARTICLES DATA

Model name	Weighing capacity	Readability	Repeatability	Linearity	Minimum piece weight	Weighing surface (d)
EG 220-3NM	220 g	0.001 g	0.001 g	± 0.002 g	10 mg	118 mm
EG 2200-2NM	2200 g	0.01 g	0.01 g	± 0.01 g	100 mg	180×160 mm
EG 4200-2NM	4200 g	0.01 g	0.01 g	± 0.02 g	100 mg	180×160 mm
EG 420-3NM	420 g	0.001 g	0.001 g	± 0.003 g	10 mg	118 mm
EG 620-3NM	620 g	0.001 g	0.001 g	± 0.004 g	10 mg	118 mm