KERN BALANCES & TEST SERVICES CATALOGUE 2021

Precision balances KERN EW-N · EG-N



The classic balance with robust tuning fork measuring system

Features

- III KERN EG-N: 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
- KERN EW-N: Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- Stable temperature behaviour
- Short stabilisation time
- Shock proof construction

EG 4200-2NM

- · High corner load performance
- GLP/ISO record keeping of weight values

4200

0.01

Totalising of pieces when counting

- Draught shield standard for models with weighing plate size III, weighing space W×D×H 158×130×78 mm
- · Protective working cover included with delivery

Technical data

- Large LCD display, digit height 17 mm
- Dimensions weighing surface, Stainless Steel

 Ø 118 mm, see larger picture

 W×D 170×140 mm,
 W×D 180×160 mm
- Overall dimensions W×D×H, without draught shield
 Ill 182×235×75 mm, Ill 192×275×87 mm
- Net weight approx. 1,4 kg
- Permissible ambient temperature 10 °C/30 °C









Accessories

- Protective working cover, scope of delivery:
 5 items, for models with weighing plate size
 A. B. KERN EG-A05S05
 KERN EG-A05S05
- KERN EG-A09S05
- Internal rechargeable battery pack, operating time up to 32 h without backlight, charging time approx. 12 h, for models with weighing plate size

A, B KERN EG-A04

C KERN EG-A06

Note: If the rechargable battery pack is retrofitted to a verified balance, it must be recalibrated

- Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 158×130×78 mm, for models with weighing plate size III, KERN EG-A03
- Loop for underfloor weighing, for models with weighing plate size
 KERN EG-A07
 KERN EG-A02
- KERN EG-A08

965-216 🕕

- Precious stones plate, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05
- Further details, plenty of further accessories and suitable printers see *Accessories*

963-127

STANDARD											OPTION			FACTORY	
CAL INT	CAL EXT	RS 232		PCS			-√+ ⊙ TOL		 230 V	(((U))) T-FORK	1 DAY	ACCU		DAkks +3 days	H3 DAYS
EG-N	EW-N														EG-N

Model	Weighing	Readability	Verification	Minimal	Linearity	Weighing	Quality		Option				
	capacity		value	load		plate	code		Verification		DAkkS Calibr. Certificate		
	[Max]	[d]	[e]	[Min]			QUA LITY		M		DAkkS		
KERN	g	g	g	g	g		LITY		KERN		KERN	1	
EW 220-3NM	220	0,001	-	-	± 0,002	A	AB		-		963-127		
EW 420-3NM	420	0,001	-	-	± 0,003	A	AB		-		963-127		
EW 620-3NM	620	0,001	-	-	± 0,003	A	AB		-		963-103		
EW 820-2NM	820	0,01	-	-	± 0,01	В	BB		-		963-127		
EW 2200-2NM	2200	0,01	-	-	± 0,01	С	BB		-		963-127		
EW 4200-2NM	4200	0,01	-	-	± 0,02	С	BB		-		963-127		
EW 6200-2NM	6200	0,01	-	-	± 0,03	С	BB		-		963-104		
EW 12000-1NM	12000	0,1	-	-	± 0,2	С	BB		-		963-128		
Note: For applications that require verification, please order verificati on at the same time, initial verification at a later date is not possible.													
Verification at the factory, we need to know the full address of the location of use.													
EG 220-3NM	220	0,001	0,01	0,02	± 0,002	A	BB		965-216 🔳		963-127		
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	A	BB		965-216 🔳		963-127		
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	A	BB		965-201 🔳		963-103		
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	С	BB		965-216 🔳		963-127		

BB

0.5

± 0.02

0.1

KERN BALANCES & TEST SERVICES CATALOGUE 2021

KCP

PROTOCOL

GLP

INTERN

PRINTER

PCS

RECIPE

RECIPE

- 88'

SUM

PERCENT

C

UNIT

- → +<

TOL

^-

digital systems GLP/ISO log:

connection GLP/ISO log:

printers

Piece counting:

Recipe level A:

Recipe level B:

Totalising level A:

value (100 %)

Weighing units:

Hold function:

KERN Communication Protocol (KCP):

It is a standardized interface command set for

KERN balances and other instruments, which

devices featuring KCP are thus easily integrated

with computers, industrial controllers and other

The balance displays serial number, user ID,

With weight, date and time. Only with KERN

Reference quantities selectable. Display can

The weights of the recipe ingredients can

be added together and the total weight of

Internal memory for complete recipes with

The weights of similar items can be added

Determining the deviation in % from the target

Can be switched to e.g. nonmetric units at the

(Checkweighing) Upper and lower limiting can

be programmed individually, e.g. for sorting and

dosing. The process is supported by an audible

(Animal weighing program) When the weighing

conditions are unstable, a stable weight is calculated as an average value

or visual signal, see the relevant model

touch of a key. See balance model. Please refer

together and the total can be printed out

name and target value of the recipe ingredients.

be switched from piece to weight

the recipe can be printed out

User guidance through display

Percentage determination:

to KERN's website for more details

Weighing with tolerance range:

weight, date and time, regardless of a printer

allows retrieving and controlling all relevant parameters and functions of the device. KERN



Pictograms



Internal adjusting: Quick setting up of the balance's accuracy with



Adjusting program CAL:

For quick setting up of the balance's accuracy. External adjusting weight required

internal adjusting weight (motordriven)



Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone.



Memory:

Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.



Alibi memory:

Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard

Data interface RS-232:

• 6550.• To connect the balance to a printer, PC or RS 232 network



RS-485 data interface:

To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible



USB data interface:

To connect the balance to a printer, PC or other peripherals

Bluetooth* data interface:

To transfer data from the balance to a printer, PC or other peripherals



*

WiFi data interface:

To transfer data from the balance to a printer, PC or other peripherals



Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.



Analogue interface:

to connect a suitable peripheral device for analogue processing of the measurements



Interface for second balance:

For direct connection of a second balance



Network interface:

For connecting the scale to an Ethernet network





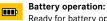
water splashes IPxx: The type of protection is shown in the pictogram

Protection against dust and

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UNDER the balance

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Ready for battery operation. The battery type

Suspended weighing:



is specified for each device

Load support with hook on the underside of



Rechargeable battery pack: Rechargeable set

Universal mains adapter:

with universal input and optional input socket MULTI adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS



Mains adapter:

230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available

Power supply:



Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request



Weighing principle: Strain gauges:

Electrical resistor on an elastic deforming body



Weighing principle: Tuning fork:

A resonating body is electromagnetically excited, causing it to oscillate



Weighing principle: Electromagnetic force compensation:

Coil inside a permanent magnet. For the most accurate weighings



Weighing principle: Single cell technology:



Advanced version of the force compensation principle with the highest level of precision



The time required for verification is specified +3 DAYS in the pictogram

DAkkS calibration possible (DKD): DAkkS The time required for DAkkS calibration is +3 DAYS shown in days in the pictogram

Factory calibration (ISO):



The time required for Factory calibration is shown in days in the pictogram



Package shipment:



The time required for internal shipping preparations is shown in days in the pictogram

Pallet shipment:



Your KERN specialist dealer:

The time required for internal shipping preparations is shown in days in the pictogram

KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAkkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAkkS calibration laboratory today is one of the most modern and bestequipped DAkkS calibration laboratories for balances, test weights and force-measurement in Europe

Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- · DAkkS calibration of balances with a maximum load of up to 50 t
- · DAkkS calibration of weights in the range of 1 mg 2500 kg · Volume determination and measuring of magnetic susceptibility (magnetic
- characteristics) for test weights · Database supported management of checking equipment and reminder service
- · Calibration of force-measuring devices
- · DAkkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL
- · Conformity evaluation and reverification of balances and test weights