KERN EW-N Series Precision Balances for Measuring System User Guide

Contents

KERN EW-N Series Precision Balances for Measuring System User Guide

The classic balance with robust tuning fork measuring system

STANDARD

EasyTouch

Features

- 1 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
- High corner load performance
- GLP/ISO record keeping of weight values
- Totalising of pieces when counting
- Draught shield standard for models with weighing plate size A, 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
  A ⌀ 118 mm, see larger picture
  B W×D 170×140 mm, C W×D 180×160 mm
- Overall dimensions W×D×H, without draught shield A, B 182×235×75 mm,
  C 192×275×87 mm
- Net weight approx. 1,4 kg
- Permissible ambient temperature 10 °C/30 °C

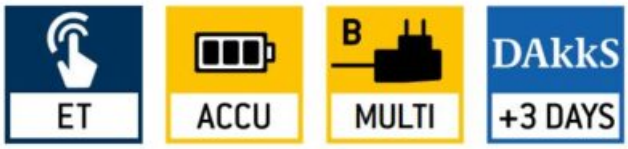
- Protective working cover, scope of delivery: 5 items, for models with weighing plate size
  A, B KERN EG-A05S05
  C KERN EG-A09S05
- Internal rechargeable battery pack, operating time up to 32 h without backlight, charging time approx. 12 h, for models with weighing plate size
  A, B KERN EG-A04
  C KERN EG-A06
  Note: If the rechargable battery pack is retrofitted to a verified balance, it must be recalibrated
- 2 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 A, KERN EG-A03
- Loop for underfloor weighing, for models with weighing plate size
  A, B KERN EG-A07
  C KERN EG-A08
- Minimum weight of sample, Further details see 207, KERN 969-103
- Equipment qualification, Further details see 208
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

EG-N EW-N

OPTION



FACTORY

EG-N

Model KERN	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate		Option Verification KERN		DAkkS Calibr. Certificate DAkkS KERN	
EW 220-3NM	220	0,001	-	-	± 0,002	A		-		963-127	
EW 420-3NM	420	0,001	-	-	± 0,003	A		-		963-127	
EW 620-3NM	620	0,001	-	-	± 0,003	A		-		963-103	
EW 820-2NM	820	0,01	-	-	± 0,01	B		-		963-127	
EW 2200-2NM	2200	0,01	-	-	± 0,01	B		-		963-127	
EW 4200-2NM	4200	0,01	-	-	± 0,02	B		-		963-127	
EW 6200-2NM	6200	0,01	-	-	± 0,03	B		-		963-104	
EW 12000-1NM	12000	0,1	-	-	± 0,2	B		-		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		965-216		963-127	
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	A		965-216		963-127	
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	A		965-201		963-103	
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	B		965-216		963-127	
EG 4200-2NM	4200	0,01	0,1	0,5	± 0,02	B		965-216		963-127	

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KERN BALANCES & TEST SERVICES 2022

Internal adjusting:
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)

Adjusting program CAL:
For quick setting up of the balance's accuracy. External adjusting weight required

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

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:
To connect the balance to a printer, PC or network

RS-485 data interface:
To connect the balance to a printer, PC or other peripherals. Suitable for datatransfer over large distances. Network in bus topology is possible

KERN Communication Protocol (KCP):
It is 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 log:
The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

GLP/ISO log:
With weight, date and time. Only with KERN printers.

Piece counting:
Reference quantities selectable. Display can be switched from piece to weight

Recipe level A:
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out

Recipe level B:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display

Suspended weighing:
Load support with hook on the underside of the balance

Battery operation:
Ready for battery operation. The battery type is specified for each device

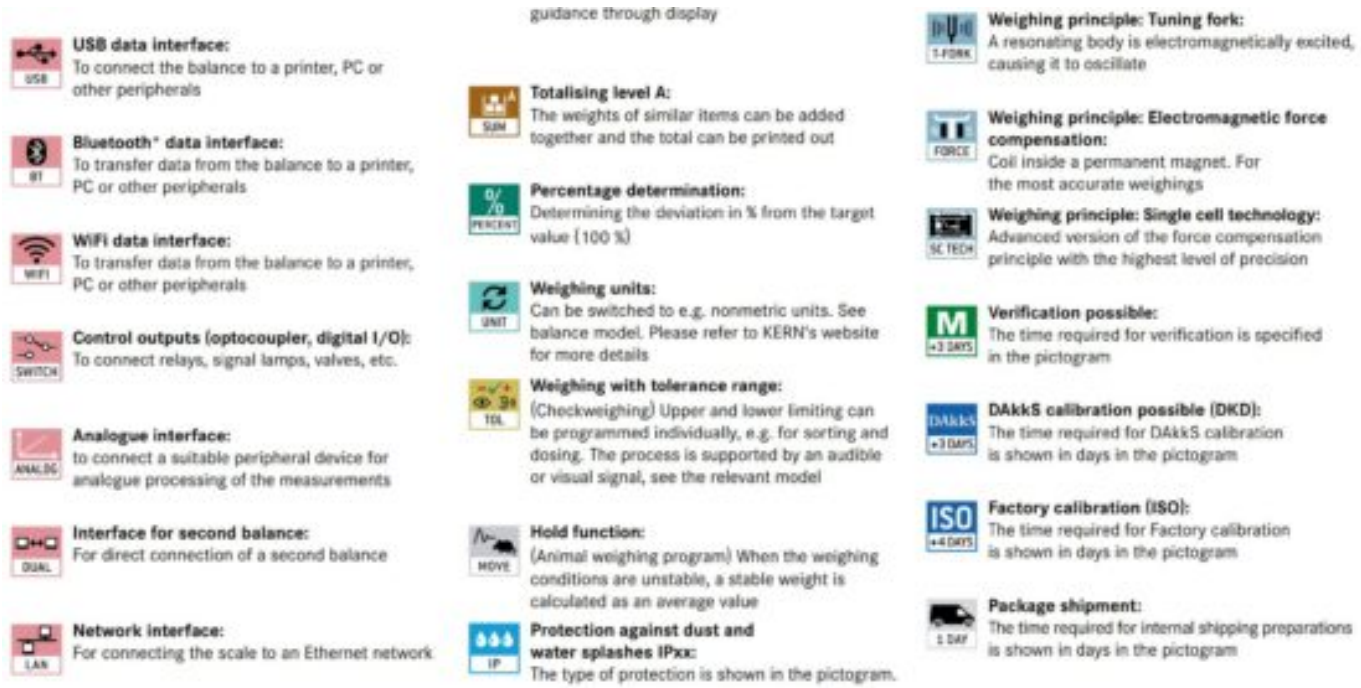
Rechargeable battery pack:
Rechargeable set

Universal plug-in power supply:
with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS

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

Integrated power supply unit:
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



Your KERN specialist dealer:

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

Read More About This Manual & Download PDF:

Documents / Resources

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