

Display devices KERN KFE-TM · KFN-TM · KXS-TM



KERN KFE-TNM

! Tip

scale on page 105

Stainless steel display device with IP65 protection



KERN KFN-TM

Stainless steel display device with IP65 protection and superior display size

! Tip

to see what options are offered by this display device, please see the KERN SFB platform scale on page 71

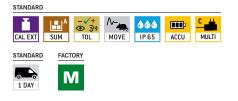


KERN KXS-TM

Stainless steel display device with IP68 protection and integrated power supply

! Tip

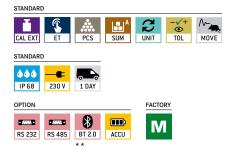
to see what options are offered by this display device, please see the KERN SXS platform scale on page 72



to see what options are offered by this display

device, please see the KERN SFE platform





** not possible in combination with verification

Features	Model KERN	Model KERN	Model KERN
	4 KFE-TNM*	5 KFN-TM	6 KXS-TM
Display (segments)	6 digits	5 + 1/2 digits	6 digits
EC type approval	yes	yes	yes
Resolution verifiable	6000 e	6000 e	10000 e
Resolution non verifiable	30000 d	30000 d	30000 d
Weighing capacities	≤ 2	≤ 2	≤ 2
Weighing units	kg	kg	kg, g
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n	1, 2, 5, 10, 50
Piece counting with reference	-	10, 20, 50, 100, 200	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 22 mm	Backlit LCD display, 52 mm	Backlit LCD display, 55 mm
Additional functions	-	Totalising, HOLD function	PRE-Tare function, totalising, HOLD function, peak hold, zero-point memorisation
Strain gauge load cells	87 - 1200 Ω	87 - 1600 Ω	87 - 1600 Ω
Linearisation	2 points	2 points	2–7 points
Input voltage	12 V, 500 mA	12 V, 500 mA	220–240 V AC
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C	-10 °C/40 °C
Interface RS-232	-	KFN-A01, see page 71	KXS-A04
nterface RS-485	-	-	KXS-A01
nterface USB	-	-	-
Interface Bluetooth	-	-	KXS-A02 (balance ► PC)
Foot switch	-	-	KXS-A03
Stand	-	BFS-A07, see page 71	YKP-02
Benchtop stand for display device/wall mount	yes/yes	yes/yes	yes/yes
Protective working cover	-	-	-
Rechargeable battery pack	standard	GAB-A04	GAB-A04
Operating/charging time	up to 45 h/12 h	up to 35 h/12 h	up to 80 h/12 h
Dimensions Housing W×D×H	195×118×83 mm	266×165×96 mm	232×170×80 mm
Net weight	1 kg	2,6 kg	2,5 kg

* ONLY WHILE STOCKS LAST!

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





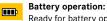
water splashes IPxx: The type of protection is shown in the pictogram

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