GB

STAINLESS STEEL/PROTECTION AGAINST DUST AND WATER SPLASHES IP65...68

PROFESSIONAL MEASURING

2018

KERN Pictograms

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

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. For details see page 191

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 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

WLAN 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.

Interface for second balance:
For direct connection of a second balance

Network interface:
For connecting the scale to an Ethernet network

Wireless data transfer:
between the weighing unit and the evaluation unit using an integrated radio module

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, see page 154/155

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

Recipe level C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition

Totalising level A:
The weights of similar items can be added together and the total can be printed out

Percentage determination:
Determining the deviation in % from the target value (100 %)

Weighing units:
Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details

Weighing with tolerance range:
(Checkweighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model

Hold function:
(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram. For details see page 58

Stainless steel:
The balance is protected against corrosion

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 mains adapter: with universal input and optional input socket adapters for
A) EU, GB
B) EU, GB, CH, USA
C) EU, GB, CH, USA, AUS

Mains adapter:
230V/50Hz in standard version for EU. 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

Verification possible:
The time required for verification is specified in the pictogram

DAkkS calibration possible (DKD):
The time required for DAkkS 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:
The time required for internal shipping preparations is shown in days in the pictogram

*The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license.
Other trademarks and trade names are those of their respective owners.

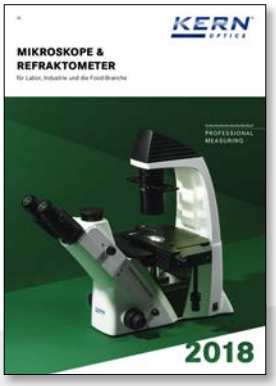
KERN – measuring technology and testing services from a single source

Balances & Test service catalogue

Provides a complete overview of the KERN line of balances, test weights, and services such as verification, calibration, etc.

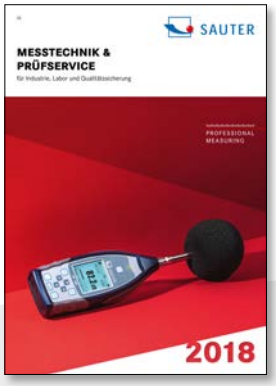
Medical scales catalogue

Complete line of medical scales, from infant scales to patient scales, chair scales and adiposity scales, as well as hand grip dynamometers, chemist's balances and veterinary scales.



Microscopes & refractometers catalogue

Extensive range in the area of optical instruments, such as, for example, biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers.



SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness and calibration service.

DAkkS calibration service brochure

Detailed information on topics pertaining to the calibration and verification of balances, test weights, and force measuring devices.

Your advantages

fast

- 24 hours delivery service for products in stock – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

reliable

- Up to 3 years warranty
- Precision in weighing technology for more than 170 years

competent

- DAkkS accreditation DIN EN ISO/IEC 17025
- Certified QM system DIN EN ISO 9001
- Authorisation for initial verification by the manufacturer 2014/31/EU
- Medical certifications DIN EN ISO 13485 and 93/42/EEC

versatile

- One-stop shopping: from pocket balances through to 15 t crane balance – everything from one supplier
- Find the product you want at lightning speed with the "Balance Quick-Finder" at www.kern-sohn.com

Order hotline
+49 [0] 7433 9933-0

Service hotline
+49 [0] 7433 9933-199

Calibration hotline
+49 [0] 7433 9933-196

Our team of consultants will assist you
from Monday to Friday
from 8:00 am to 6:00 pm

Online Shop
www.kern-sohn.com

E-mail order
info@kern-sohn.com

Fax order
+49 [0] 7433 9933-146

www.kern-sohn.com
Information on current product availability, product data sheets, user instructions, useful knowledge, technical glossary, images and much for you to download, practical topic areas, which will guide you to the right product in your industry as well as a clever test weight and balance search engine.

Stainless steel/Protection against dust and water splashes IP65...68

KERN scales – not scared of water at all!

Scales used in industrial situations or the food industry are often exposed to extreme stresses and strains. Water, oils, fats, varnish, dust, dirt, flour, small parts, etc. are all natural enemies of a scale. In industries such as the chemical, pharmaceutical, food, manufacturing industries, etc. scales must be able to cope with these stresses without this affecting their performance.

For use in such harsh environmental conditions, levels of protection are defined, which specify which environmental stresses a system can be exposed to with respect to the level of contact, foreign object and moisture protection, without damage being caused to the unit. These levels of protection are described in the following standard: "DIN EN 60529: protection types through housing" The IP code usually consists of a two-digit combination, which gives the relevant level of protection, e.g. IP68.

The first digit specifies the protection level for contact protection and protection against foreign bodies (dust protection), the second digit is for the water and moisture protection (protection against splashes of water).

All stainless steel components of the IP65...68 protected KERN stainless steel scales are made of corrosion-resistant steel of quality class 1.4301 (DIN X5CrNi18-10). The material properties support you in your ▸ ***HACCP***-compliant quality system.

▸ ***See the glossary on page 191–193***

Extract from the standard: "DIN EN 60529: protection types through housing":

KERN-Pictogram	1. digit	Specification	2. digit	Specification
IP 65	6	Dustproof	5	Designed for temporary contact with liquids. Use a damp cloth for cleaning.
IP 66	6	Dustproof	6	Protection against water jets.
IP 67	6	Dustproof	7	Designed for temporary use in wet areas. Temporary submersion is possible.
IP 68	6	Dustproof	8	Designed for continuous use in wet areas. Submersion is possible.

- **Scale entirely out of stainless steel**
- **Protection against dust and water splashes IP67**
- **High mobility: thanks to compact, flat construction and low weight, it is suitable for use in several locations (kitchen, cafeteria, warehouse etc.)**

Lisa Mayer
Product specialist Stainless steel scales

Tel. +49 [0] 7433 9933-219
Fax +49 [0] 7433 9933-29219
lisa.mayer@kern-sohn.com

only €
230,-
page 61

HIGH-LIGHT

KERN FOB-N

Quick-Finder Stainless steel/Protection against dust and water splashes IP65...68

Read-out [d] g	Weighing range [Max] kg	Model KERN	Price excl. of VAT ex works €	Page	DAYS	M	CAL EXT	RS 232	TOL	IP	INOX	ACCU
					For an explanation on the pictos, see the front flap							
0,1	0,5	**FOB 500-1S**	**79,-**	60	1		●				●	
0,1	0,5	**FOB 0.5K-4NS**	**105,-**	60	1		●			●	●	
0,2	1,5	**WTB 1K-4N**	**220,-**	62	1		●		●	●		○
0,2	1,5	**FFN 1K-4N**	**260,-**	63	1		●			●	●	●
0,5	1,5	**FOB 1.5K0.5**	**175,-**	61	1		●				●	○
0,5	1,5	**WTB 1K-4NM**	**255,-**	62	1	○	●		●	●		○
0,5	1,5	**FFN 1K-4NM**	**285,-**	63	1	○	●			●	●	●
0,5	3	**WTB 3K-4N**	**220,-**	62	1		●		●	●		○
0,5	3	**FFN 3K0.5IPN**	**255,-**	63	1		●			●	●	●
0,5	3	**FXN 3K-4N**	**280,-**	64	1		●		●	●	●	
0,5 | 1	5 | 7,5	**FOB 7K-4NL**	**230,-**	61	1		●			●	●	
1	1	**FOB 1K1M**	**195,-**	61	1	○	●				●	○
1	3	**FOB 3K1**	**180,-**	61	1		●				●	○
1	3	**WTB 3K-3NM**	**255,-**	62	1	○	●		●	●		○
1	3	**FFN 3K1IPM**	**285,-**	63	1	○	●			●	●	●
1	3	**FXN 3K-3M**	**340,-**	64	1		●		●	●	●	
1	5	**FOB 5K1S**	**79,-**	60	1		●				●	
1	5	**FOB 5K-3NS**	**105,-**	60	1		●			●	●	
1	6	**WTB 6K-3N**	**220,-**	62	1		●		●	●		○
1	6	**FFN 6K1IPN**	**255,-**	63	1		●			●	●	●
1	6	**FXN 6K-3N**	**280,-**	64	1		●		●	●	●	
1	10	**SFB 10K1HIP**	**670,-**	65	1		●	○	●	●	●	●
1	15	**FOB 15K1L**	**320,-**	61	1		●				●	○
1 | 2	3 | 6	**SXS 6K-3M**	**690,-**	66	1	○	●	○	●	●	●	○
1 | 2	8 | 15	**FOB 10K-3NL**	**230,-**	61	1		●			●	●	
2	6	**FOB 6K2**	**175,-**	61	1		●				●	○
2	6	**WTB 6K-3NM**	**255,-**	62	1	○	●		●	●		○
2	6	**FFN 6K2IPM**	**285,-**	63	1	○	●			●	●	●
2	6	**FXN 6K-3M**	**340,-**	64	1		●		●	●	●	
2	15	**WTB 10K-3N**	**220,-**	62	1		●		●	●		○
2	15	**FFN 15K2IPN**	**255,-**	63	1		●			●	●	●
2	15	**FXN 10K-3N**	**280,-**	64	1		●		●	●	●	
2	20	**SFB 20K2HIP**	**670,-**	65	1		●	○	●	●	●	●
2	30	**FOB 30K2L**	**320,-**	61	1		●				●	○
2 | 5	6 | 15	**SXS 10K-3M**	**690,-**	66	1	○	●	○	●	●	●	○
2 | 5	6 | 15	**SXS 10K-3LM**	**850,-**	66	1	○	●	○	●	●	●	○
2 | 5	16 | 30	**FOB 30K-3NL**	**230,-**	61	1		●			●	●	
5	15	**WTB 10K-3NM**	**255,-**	62	1	○	●		●	●		○
5	15	**FFN 15K5IPM**	**285,-**	63	1	○	●			●	●	●
5	15	**FXN 10K-3M**	**340,-**	64	1		●		●	●	●	
5	15	**SFB 15K5HIPM**	**710,-**	65	1	○	●	○	●	●	●	●
5	25	**FFN 25K5IPN**	**255,-**	63	1		●			●	●	●
5	30	**WTB 30K-3N**	**220,-**	62	1		●		●	●		○
5	30	**FXN 30K-3N**	**280,-**	64	1		●		●	●	●	
5	50	**SFB 50K5HIP**	**670,-**	65	1		●	○	●	●	●	●
5	50	**SFB 50K5LHIP**	**820,-**	65	1		●	○	●	●	●	●
5	50	**SFB 50K-3XL**	**910,-**	65	1		●	○	●	●	●	●
5 | 10	15 | 30	**SXS 30K-2M**	**860,-**	66	1	○	●	○	●	●	●	○
5 | 10	15 | 30	**SXS 30K-2LM**	**1160,-**	66	1	○	●	○	●	●	●	○
10	25	**FFN 25K10IPM**	**285,-**	63	1	○	●			●	●	●
10	30	**WTB 30K-2NM**	**255,-**	62	1	○	●		●	●		○
10	30	**FXN 30K-2M**	**340,-**	64	1		●		●	●	●	
10	30	**SFB 30K10HIPM**	**710,-**	65	1	○	●	○	●	●	●	●
10	100	**SFB 100K10HIP**	**810,-**	65	1		●	○	●	●	●	●
10	100	**SFB 100K-2L**	**910,-**	65	1		●	○	●	●	●	●
10	100	**SFB 100K-2XL**	**1140,-**	65	1		●	○	●	●	●	●
10 | 20	30 | 60	**SXS 60K-2M**	**850,-**	66	1	○	●	○	●	●	●	○
10 | 20	30 | 60	**SXS 60K-2LM**	**1160,-**	66	1	○	●	○	●	●	●	○
20	60	**SFB 60K20LHIPM**	**810,-**	65	1	○	●	○	●	●	●	●
20	60	**SFB 60K-2XLM**	**1010,-**	65	1	○	●	○	●	●	●	●
20	200	**SFB 200K-2XL**	**1160,-**	65	1		●	○	●	●	●	●
20 | 50	60 | 150	**SXS 100K-2M**	**1160,-**	66	1	○	●	○	●	●	●	○
20 | 50	60 | 150	**SXS 100K-2LM**	**1450,-**	66	1	○	●	○	●	●	●	○
50	150	**SFB 100K-2HM**	**790,-**	65	1	○	●	○	●	●	●	●
50	150	**SFB 100K-2LM**	**1010,-**	65	1	○	●	○	●	●	●	●
50	150	**SFB 100K-2XLM**	**1170,-**	65	1	○	●	○	●	●	●	●
50 | 100	150 | 300	**SXS 300K-2M**	**1450,-**	66	1	○	●	○	●	●	●	○
100	300	**SFB 300K-1LM**	**1170,-**	65	1	○	●	○	●	●	●	●

☐ News 2018

● = standard ○ = option

KERN FOB-S

KERN FOB-NS

Compact stainless steel balances with high level of protection against dust and water splashes

	KERN FOB-S	KERN FOB-NS
Features	• **Stainless steel design of the housing** and weighing plate. Its smooth surfaces make it simple to clean • **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.) • Secure and non-slip positioning with rubber feet • **Protective working cover** included with delivery	
	• Your support in a **HACCP**-compliant quality system	• **Particularly flat design** • **Protection against dust and water splashes IP65** (only when using battery)
Technical data	• Large LCD display, digit height 20 mm • Dimensions weighing surface, stainless steel, W×D 125×155 mm • Overall dimensions W×D×H 175×155×40 mm • Ready for use: Battery included, 9 V Block, operating time up to 20 h • Net weight approx. 0,7 kg • Permissible ambient temperature 10 °C/40 °C	• Large LCD display, digit height 20 mm • Dimensions weighing surface, stainless steel, W×D 120×150 mm • Overall dimensions W×D×H 170×150×40 mm • Ready for use: Batteries included, 9 V block, operating time up to 24 hours • Net weight approx. 0,8 kg • Permissible ambient temperature 10 °C/35 °C
Accessories	• **Protective working cover,** scope of delivery: 5 items, KERN FOB-A11S05, **€ 40,-** • **Mains adapter external**, KERN FOB-A09, **€ 35,-**	• **Protective working cover,** scope of delivery: 5 items, KERN FOB-A12S05, **€ 40,-** • **Mains adapter external,** KERN FOB-A09, **€ 35,-**

STANDARD FOB-S

OPTION

STANDARD FOB-NS

OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Weighing plate W×D mm	Price excl. of VAT ex works €	Options DAkkS Calibr. Certificate DKD KERN	 €
FOB 500-1S	0,5	0,1	125×155	**79,-**	963-127	72,-
FOB 5K1S	5	1	125×155	**79,-**	963-127	72,-
FOB 0.5K-4NS	0,5	0,1	120×150	**105,-**	963-127	72,-
FOB 5K-3NS	5	1	120×150	**105,-**	963-127	72,-

KERN FOB

KERN FOB-N

Compact stainless steel balances with EC-Type Approval [M]

	KERN FOB	KERN FOB-N
Features	• **Stainless steel design of the housing** and weighing plate. Its smooth surfaces make it simple to clean • **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc. • Your support in a **HACCP**-compliant quality system • **Protective working cover** included with delivery	
	• **Secure and non-slip positioning** with rubber feet • **Increased protection against humidity** through waterproof silicone sealing of the load cell, electronics and soldering joints • **Check the weighing range** which is in use at the press of a button (net/gross weight)	• **Protection against dust and water splashes IP67** (only when using battery)
Technical data	• Large LCD display, digit height 25 mm • Dimensions weighing surface, stainless steel A W×D 175×160 mm B W×D 215×215 mm • Overall dimensions W×D×H A 175×235×60 mm B 220×305×80 mm • Net weight A approx. 2,2 kg B approx. 2,8 kg • Permissible ambient temperature KERN FOB: -10 °C/40 °C KERN FOB-M: 0 °C/40 °C	• Large backlit LCD display, digit height 25 mm • Dimensions weighing surface, stainless steel, C W×D 252×200 mm • Overall dimensions W×D×H 285×255×90 mm • Ready for use: Batteries included, 4×1.5 V AA, operating time up to 48 h • Net weight approx. 3,8 kg • Permissible ambient temperature 5 °C/35 °C
Accessories	• **Protective working cover,** scope of delivery: 5 items, for models with weighing plate size A KERN FOB-A05S05, **€ 40,-** B KERN FOB-A06S05, **€ 40,-** • **Rechargeable battery pack internal,** for models with weighing plate size A operating time up to 24 h, without backlight, charging time approx. 8 h, KERN FOB-A07, **€ 45,-** B operating time up to 30 h, without backlight, charging time approx. 14 h, KERN FOB-A08, **€ 55,-**	• **Protective working cover,** scope of delivery: 5 items, KERN FOB-A13S05, **€ 40,-** • **Mains adapter external,** KERN FOB-A01, **€ 35,-**

STANDARD FOB: CAL EXT · INOX · 230 V · DMS · 1 DAY

OPTION: ACCU · DAkkS +3 DAYS

FACTORY: M +3 DAYS (FOB-M)

STANDARD FOB-N: CAL EXT · UNIT · IP 67 · INOX · BATT · DMS · 1 DAY

OPTION: 230 V · DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Weighing plate W×D mm	Price excl. of VAT ex works €	Options Verification M III KERN	 €	DAkkS Calibr. Certificate DKD KERN	 €
FOB 1.5K0.5*	1,5	0,5	-	-	A	**175,-**	-	-	963-127	72,-
FOB 3K1*	3	1	-	-	A	**180,-**	-	-	963-127	72,-
FOB 6K2*	6	2	-	-	A	**175,-**	-	-	963-128	88,-
FOB 15K1L*	15	1	-	-	B	**320,-**	-	-	963-128	88,-
FOB 30K2L*	30	2	-	-	B	**320,-**	-	-	963-128	88,-
FOB 1K1M	1	1	1	20	A	**195,-**	965-227	55,-	963-127	72,-
FOB 7K-4NL	5 | 7,5	0,5 | 1	-	-	C	**230,-**	-	-	963-128	88,-
FOB 10K-3NL	8 | 15	1 | 2	-	-	C	**230,-**	-	-	963-128	88,-
FOB 30K-3NL	16 | 30	2 | 5	-	-	C	**230,-**	-	-	963-128	88,-

! *ONLY WHILE STOCKS LAST !

07

Ideal for food industry, thanks to its IP65 protection and special checkweighing display, now also with EC type approval [M]

Features

- **Suitable for the ever-increasing hygienic requirements** in the food industry
- Your support in a **HACCP**-compliant quality system
- 1 **Protection against dust and water splashes IP65** (only when using rechargeable battery pack)
- **Very fast display:** steady weight values within 2 s
- 2 **Second display** on the rear of the balance
- **Compact size**, practical for small spaces
- 3 **Innovative weighing with tolerance range (Checkweighing):** The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading
- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- **Recessed grips on the underside** of the scale for easy transportation
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, W×D×H 260×200×16,2 mm
- Overall dimensions W×D×H 260×200×16,2 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

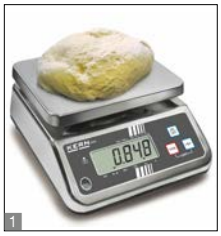
Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN RFB-A01S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 50 h without backlight, charging time approx. 12 h, KERN WTB-A01N, **€ 35,-**
- 4 **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- 5 **Sturdy transport case** to protect and store the scale, dimensions W×D×H 510×360×220 mm, KERN RFB-A02, **€ 115,-**

STANDARD: CAL EXT, UNIT, TOL, IP 65 (1), MULTI, DMS, 1 DAY
OPTION: ACCU, DAkkS +3 DAYS
FACTORY: M +3 DAYS WTB-NM

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Options: Verification MID KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
WTB 1K-4N	1,5	0,2	-	-	**220,-** ↓	-	-	963-127	72,-
WTB 3K-4N	3	0,5	-	-	**220,-** ↓	-	-	963-127	72,-
WTB 6K-3N	6	1	-	-	**220,-** ↓	-	-	963-128	88,-
WTB 10K-3N	15	2	-	-	**220,-** ↓	-	-	963-128	88,-
WTB 30K-3N	30	5	-	-	**220,-** ↓	-	-	963-128	88,-
Note: For applications that require verification, please order verification 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.									
WTB 1K-4NM	1,5	0,5	0,5	10	**255,-** ↓	965-227	55,-	963-127	72,-
WTB 3K-3NM	3	1	1	20	**255,-** ↓	965-227	55,-	963-127	72,-
WTB 6K-3NM	6	2	2	40	**255,-** ↓	965-228	70,-	963-128	88,-
WTB 10K-3NM	15	5	5	100	**255,-** ↓	965-228	70,-	963-128	88,-
WTB 30K-2NM	30	10	10	200	**255,-** ↓	965-228	70,-	963-128	88,-

↓ Price reduction



1

2

3

All-round bench scale, protected by stainless steel and IP65 rating, now also with EC type approval [M]

Features

- 1 **Ideal for the increased hygienic requirements** in the food, pharmaceutical and chemical industries
- Your support in a **HACCP**-compliant quality system
- 2 **Ideal for the robust industrial applications**
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **Recessed grips on the underside** of the scale for easy transportation
- 3 **Protection against dust and water splashes IP65** (only when using rechargeable battery pack)

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 230×190 mm
- Overall dimensions W×D×H 230×300×130 mm
- Rechargeable battery pack internal, operating time up to 50 h without backlight, charging time approx. 12 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature KERN FFN-N: 0 °C/40 °C KERN FFN-NM: -10 °C/40 °C

Accessories

- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**

STANDARD

3

OPTION

FACTORY

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Options Verification KERN	 €	DAkkS Calibr. Certificate KERN	 €
FFN 1K-4N	1,5	0,2	-	-	**260,-**	-	-	963-127	72,-
FFN 3K0.5IPN	3	0,5	-	-	**255,-**	-	-	963-127	72,-
FFN 6K1IPN	6	1	-	-	**255,-**	-	-	963-128	88,-
FFN 15K2IPN	15	2	-	-	**255,-**	-	-	963-128	88,-
FFN 25K5IPN	25	5	-	-	**255,-**	-	-	963-128	88,-
Note: For applications that require verification, please order verification 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.									
FFN 1K-4NM	1,5	0,5	0,5	10	**285,-**	965-227	55,-	963-127	72,-
FFN 3K1IPM	3	1	1	20	**285,-**	965-227	55,-	963-127	72,-
FFN 6K2IPM	6	2	2	40	**285,-**	965-228	70,-	963-128	88,-
FFN 15K5IPM	15	5	5	100	**285,-**	965-228	70,-	963-128	88,-
FFN 25K10IPM	25	10	10	200	**285,-**	965-228	70,-	963-128	88,-

Price reduction

1

2

07

Robust, space-saving bench scale, protected by stainless steel and IP68 rating – now with EC type approval [M]

Features

- **Suitable for the ever-increasing hygienic requirements** in the food industry
- Your support in a **HACCP**-compliant quality system
- **Ideal for the robust industrial applications**
- **Protection against dust and water splashes IP68**, ideal for harsh ambient conditions. Submersion in water actually possible
- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **Very fast display:** steady weight values within 2 s
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- 1 **Recessed grips on the underside** of the scale for easy transportation
- **Weighing with tolerance range (checkweighing):** a visual and audible signal helps with portioning, dispensing or grading

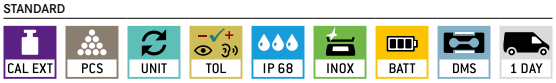
Technical data

- Large backlit LCD display (FXN-M: green), digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 236×195 mm
- Overall dimensions W×D×H 240×280×120 mm
- **Ready for use:** Batteries included, 4×1.5 V Size D, operating time up to 200 h (FXN-M: up to 500 h), AUTO-OFF function to preserve the battery
- Net weight approx. 3,2 kg
- Permissible ambient temperature KERN FXN-N: 0 °C/40 °C KERN FXN-M: -10 °C/40 °C

Accessories

- 2 **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Options: Verification M III KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
FXN 3K-4N	3	0,5	-	-	5	**280,-** ↓	-	-	963-127	72,-
FXN 6K-3N	6	1	-	-	10	**280,-** ↓	-	-	963-128	88,-
FXN 10K-3N	15	2	-	-	20	**280,-** ↓	-	-	963-128	88,-
FXN 30K-3N	30	5	-	-	50	**280,-** ↓	-	-	963-128	88,-
Note: For applications that require verification, please order verification 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.										
FXN 3K-3M NEW	3	1	1	20	5	**340,-**	965-227	55,-	963-127	72,-
FXN 6K-3M NEW	6	2	2	40	10	**340,-**	965-228	70,-	963-128	88,-
FXN 10K-3M NEW	15	5	5	100	20	**340,-**	965-228	70,-	963-128	88,-
FXN 30K-2M NEW	30	10	10	200	50	**340,-**	965-228	70,-	963-128	88,-

NEW New model ↓ Price reduction

3

4

Stainless steel platform scales with IP65/67 protection, also with XL platform or EC type approval [M]

Features

- **Ideal for the robust industrial applications**
- 1 **Platform:** made entirely of stainless steel, silicone-coated steel load cell, protection against dust and water splashes IP67
- 2 **Display device:** stainless steel, protection against dust and water splashes IP65, (only when using rechargeable battery pack)
  3 SFB-H: **Column,** standard, for models with weighing plate size 300×240 mm: Column height approx. 200 mm
  400×300 mm: Column height approx. 200 mm

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 3 m
- Rechargeable battery pack internal, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Stand** to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01, **€ 75,-**
- 4 **Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD: CAL EXT, GLP PRINTER, PCS, SUM, TOL, IP 65 (2), IP 67 (1), INOX, ACCU, MULTI, DMS, 1 DAY
OPTION: DAkkS +3 DAYS
FACTORY: RS 232, M +3 DAYS (SFB-M/ SFB-HM)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate W×D mm	Price excl. of VAT ex works €	Options: Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
SFB 50K-3XL	50	5	-	-	14	500×400	**910,-**	-	-	963-128	88,-
SFB 100K-2L*	100	10	-	-	14	500×400	**910,-**	-	-	963-129	105,-
SFB 100K-2XL	100	10	-	-	26	650×500	**1140,-**	-	-	963-129	105,-
SFB 200K-2XL*	200	20	-	-	26	650×500	**1160,-**	-	-	963-129	105,-
with elevated display											
SFB 10K1HIP	10	1	-	-	8	300×240	**670,-**	-	-	963-128	88,-
SFB 20K2HIP	20	2	-	-	8	300×240	**670,-**	-	-	963-128	88,-
SFB 50K5HIP	50	5	-	-	8	300×240	**670,-**	-	-	963-128	88,-
SFB 50K5LHIP	50	5	-	-	8	400×300	**820,-**	-	-	963-128	88,-
SFB 100K10HIP	100	10	-	-	14	400×300	**810,-**	-	-	963-129	105,-
Note: For applications that require verification, please order verification 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.											
SFB 100K-2HM	150	50	50	1000	13	400×300	**790,-** ↓	965-229	93,-	963-129	105,-
SFB 100K-2LM	150	50	50	1000	24	500×400	**1010,-**	965-229	93,-	963-129	105,-
SFB 100K-2XLM	150	50	50	1000	24	650×500	**1170,-**	965-229	93,-	963-129	105,-
SFB 300K-1LM*	300	100	100	2000	26	650×500	**1170,-**	965-229	93,-	963-129	105,-
with elevated display											
SFB 15K5HIPM	15	5	5	100	8	300×240	**710,-**	965-228	70,-	963-128	88,-
SFB 30K10HIPM	30	10	10	200	8	300×240	**710,-**	965-228	70,-	963-128	88,-
SFB 60K20LHIPM	60	20	20	400	14	400×300	**810,-**	965-229	93,-	963-129	105,-
SFB 60K-2XLM	60	20	20	400	16	500×400	**1010,-**	965-229	93,-	963-129	105,-

↓ Price reduction ! *ONLY WHILE STOCKS LAST !

1

07

Stainless steel platform scale with stainless steel IP68 display and EC type approval [M]

Features

- **Ideal for the robust industrial applications**
- 1 **Platform:** made entirely of stainless steel, silicone-coated steel load cell, protection against dust and water splashes IP68. Substruction in wing design, extremely resistant to bending. Earthed weighing plate, to reduce static charge
- 2 **Display device:** stainless steel, protection against dust and water splashes IP68, integrated power supply
- **Suitable for the ever-increasing hygienic requirements** in the food industry
- **Wall mount** for display device, standard
- **Superior display size:** digit height 55 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Thanks to **interfaces** such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer

Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel W×D×H
  - A 300×240×86 mm
  - B 400×300×89 mm
  - C 500×400×123 mm
  - D 650×500×133,5 mm
- Dimensions of display device W×D×H 232×170×80 mm
- Cable length of display device approx. 2,5 m

Accessories

- **Stand** to elevate display device, must be ordered at purchase, for models with weighing plate size
  - A–D height of stand approx. 200 mm, KERN IXS-A02, **€ 70,-**
  - B–D height of stand approx. 400 mm, KERN IXS-A03, **€ 75,-**
  - C–D height of stand approx. 600 mm, KERN IXS-A04, **€ 85,-**
- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KXS-A04, **€ 100,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 145,-**
- **Foot switch**, must be ordered at purchase, KERN KXS-A03, **€ 130,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KXS-A02, **€ 170,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD: CAL EXT, GLP PRINTER, PCS, TOL, MOVE, IP 67 [1], IP 68 [2], INOX, 230 V, DMS, 1 DAY

OPTION: DAkkS +3 DAYS

FACTORY: RS 232, RS 485, BT, ACCU, M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options Verification KERN	 €	 DAkkS Calibr. Certificate KERN	 €
SXS 6K-3M	3 | 6	1 | 2	1 | 2	20 | 40	6	A	**690,-**	965-228	70,-	963-128	88,-
SXS 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	7	A	**690,-**	965-228	70,-	963-128	88,-
SXS 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	12	B	**850,-**	965-228	70,-	963-128	88,-
SXS 30K-2M	15 | 30	5 | 10	5 | 10	100 | 200	12	B	**860,-**	965-228	70,-	963-128	88,-
SXS 30K-2LM	15 | 30	5 | 10	5 | 10	100 | 200	22	C	**1160,-**	965-228	70,-	963-128	88,-
SXS 60K-2M	30 | 60	10 | 20	10 | 20	200 | 400	14	B	**850,-**	965-229	93,-	963-129	105,-
SXS 60K-2LM	30 | 60	10 | 20	10 | 20	200 | 400	22	C	**1160,-**	965-229	93,-	963-129	105,-
SXS 100K-2M	60 | 150	20 | 50	20 | 50	400 | 1000	24	C	**1160,-**	965-229	93,-	963-129	105,-
SXS 100K-2LM	60 | 150	20 | 50	20 | 50	400 | 1000	38	D	**1450,-**	965-229	93,-	963-129	105,-
SXS 300K-2M	150 | 300	50 | 100	50 | 100	1000 | 2000	36	D	**1450,-**	965-229	93,-	963-129	105,-

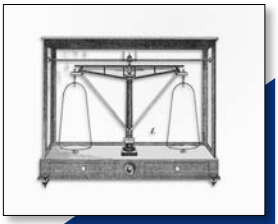
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].

Note: For applications that require verification, please order verification 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.

Tradition and innovation for more than 170 years

Printed in Germany
by KERN & SOHN GmbH
z-cb-gb-np-20181

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.



1844

KERN is founded – precision balances are produced

1863

A proud Gottlieb Kern with his staff

1880

Pharmaceutical balance with Aesculap

1923

Inflation – KERN wages are paid with self printed currency

1980

The electronic balance ousts mechanical devices

1994

Accredited DKD laboratory (ISO 17025)

2000

New premises in Balingen

2002

Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards

2007

Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)

2008

Authorisation for initial verification by the manufacturer (2009/23/EU)

2009

Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)

2012

Verification point for non-automatic balances and test weights.

New customer portal www.kern-sohn.com goes live

2014

Expansion of the product range to include optical instruments (microscopes and refractometers)

2015

Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse

2017

Come with KERN into the digital future: Expansion of the model ranges compatible with Industry 4.0, as well as the related services

KERN & SOHN GmbH
Balances, Test weights,
DAkkS Calibration laboratory
Ziegelei 1
72336 Balingen
Germany

Tel. +49 [0] 7433 9933-0
Fax +49 [0] 7433 9933-149

info@kern-sohn.com
www.kern-sohn.com

AUTHORISATION FOR **INITIAL VERIFICATION BY THE MANUFACTURER** 2014/31/EU

German Excellence Group
Member