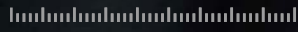# KERN®

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

2017

PROFESSIONAL
MEASURING

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:
Electronic archiving of weighing results, complying with the 2009/23/EC standard. For details see page 199

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. High tolerance against electromagnetic disturbance.

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. With KERN products you can use a universal RS-232/LAN converter. See page 166

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

GLP/ISO log:
The balance displays the weight, date and time, regardless of a printer connection.

GLP/ISO log:
With weight, date and time. Only with KERN printers, see "Accessories", see page 163.

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

Recipe level A:
Separate memory for the weight of the tare container and the recipe ingredients (net total).

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:
Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning

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 56.

ATEX explosion protection:
Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.

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.

Warranty:
The warranty period is shown in the pictogram.

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 – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

reliable

- 3 years warranty for balances over € 400,–
- Precision in weighing technology for more than 170 years

competent

- DAkkS accreditation DIN EN ISO/IEC 17025
- Certified QM system DIN EN ISO 9001:2008
- 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 floor scales – everything from one supplier
- Find the product you want at lightning speed with the "Balance Quick-Finder" at www.kern-sohn.com

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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 beeing caused to the unit. These levels of protection are described in the following standard: "DIN EN 60529: protecction 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 199–201*

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.

HIGH-LIGHT

Your product specialist's recommendation:

👍 **Scale entirely out of stainless steel**

👍 **Protection against dust and water splashes IP67**

👍 **High mobility: thanks compact, flat construction and low weight, it is suitable for use in several locations (kitchen, cafeteria, warehouse etc.)**

Lisa Mayer
Product specialist Stainless steel

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KERN FOB-N

from €
235,–
▸ page 59

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

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS	M	CAL EXT	RS 232	TOL	IP	INOX	ACCU
0,1 g	0,5 kg	FOB 500-1S	79,-	58	1		•				•	
0,1 g	0,5 kg	FOB 0.5K-4NS	105,-	58	1		•			•	•	
0,2 g	1,5 kg	WTB 1K-4N	240,-	60	1		•		•	•		○
0,2 g	1,5 kg	FFN 1K-4N	275,-	61	1		•			•	•	•
0,5 g	1,5 kg	FOB 1.5K0.5	175,-	59	1		•				•	○
0,5 g	1,5 kg	WTB 1K-4NM	260,-	60	1	○	•		•	•		○
0,5 g	1,5 kg	FFN 1K-4NM	295,-	61	1	○	•			•	•	•
0,5 g	3 kg	WTB 3K-4N	240,-	60	1		•			•	•	
0,5 g	3 kg	FFN 3K0.5IPN	275,-	61	1		•			•	•	•
0,5 g	3 kg	FXN 3K-4N	335,-	62	1		•			•	•	
0,5 | 1 g	5 | 7,5 kg	FOB 7K-4NL	235,-	59	1		•				•	
1 g	10 kg	SFB 10K1HIP	750,-	63	1		•	○	•	•	•	•
1 g	3 kg	FOB 3K1	180,-	59	1		•				•	○
1 g	1 kg	FOB 1K1M	195,-	59	1	○	•				•	○
1 g	3 kg	WTB 3K-3NM	260,-	60	1	○	•		•	•		○
1 g	3 kg	FFN 3K1IPM	295,-	61	1	○	•			•	•	•
1 g	3 kg	FXN 3K-3	375,-	62	1	○	•		•	•	•	
1 g	5 kg	FOB 5K1S	79,-	58	1		•				•	
1 g	5 kg	FOB 5K-3NS	105,-	58	1		•			•	•	
1 g	6 kg	WTB 6K-3N	240,-	60	1		•		•	•		○
1 g	6 kg	FFN 6K1IPN	275,-	61	1		•			•	•	•
1 g	6 kg	FXN 6K-3N	335,-	62	1		•		•	•	•	
1 g	15 kg	FOB 15K1L	320,-	59	1		•				•	○
1 | 2 g	3 | 6 kg	SXS 6K-3M	690,-	64	1	○	•	○	•	•	•	○
1 | 2 g	8 | 15 kg	FOB 10K-3NL	240,-	59	1		•			•	•	
2 g	6 kg	FOB 6K2	175,-	59	1		•				•	○
2 g	6 kg	WTB 6K-3NM	260,-	60	1	○	•			•	•	○
2 g	6 kg	FFN 6K2IPM	295,-	61	1	○	•			•	•	•
2 g	6 kg	FXN 6K-3	375,-	62	1	○	•		•	•	•	
2 g	15 kg	WTB 10K-3N	240,-	60	1		•			•	•	
2 g	15 kg	FFN 15K2IPN	275,-	61	1		•			•	•	•
2 g	15 kg	FXN 10K-3N	335,-	62	1		•		•	•	•	
2 g	20 kg	SFB 20K2HIP	760,-	63	1		•	○	•	•	•	•
2 g	30 kg	FOB 30K2L	320,-	59	1		•				•	○
2 | 5 g	16 | 30 kg	FOB 30K-3NL	240,-	59	1		•			•	•	
2 | 5 g	6 | 15 kg	SXS 10K-3M	690,-	64	1	○	•	○	•	•	•	○
2 | 5 g	6 | 15 kg	SXS 10K-3LM	850,-	64	1	○	•	○	•	•	•	○
5 g	15 kg	WTB 10K-3NM	260,-	60	1	○	•		•	•		○
5 g	15 kg	FFN 15K5IPM	295,-	61	1	○	•			•	•	•
5 g	15 kg	FXN 10K-3	375,-	62	1	○	•		•	•	•	
5 g	15 kg	SFB 15K5HIPM	770,-	63	1		•	○	•	•	•	•
5 g	25 kg	FFN 25K5IPN	275,-	61	1		•			•	•	•
5 g	30 kg	WTB 30K-3N	240,-	60	1		•			•		○
5 g	30 kg	FXN 30K-3N	335,-	62	1		•		•	•	•	
5 g	50 kg	SFB 50K5HIP	750,-	63	1		•	○	•	•	•	•
5 g	50 kg	SFB 50K-3XL	930,-	63	1		•	○	•	•	•	•
5 g	50 kg	SFB 50K5LHIP	820,-	63	1		•	○	•	•	•	•
5 | 10 g	15 | 30 kg	SXS 30K-2M	860,-	64	1	○	•	○	•	•	•	○
5 | 10 g	15 | 30 kg	SXS 30K-2LM	1160,-	64	1	○	•	○	•	•	•	○
10 g	25 kg	FFN 25K10IPM	295,-	61	1	○	•			•	•	•
10 g	30 kg	WTB 30K-2NM	260,-	60	1	○	•		•	•		○
10 g	30 kg	FXN 30K-2	375,-	62	1	○	•		•	•	•	
10 g	30 kg	SFB 30K10HIPM	770,-	63	1		•	○	•	•	•	•
10 g	100 kg	SFB 100K10HIP	810,-	63	1		•	○	•	•	•	•
10 g	100 kg	SFB 100K-2L	930,-	63	1		•	○	•	•	•	•
10 g	100 kg	SFB 100K-2XL	1270,-	63	1		•	○	•	•	•	•
10 | 20 g	30 | 60 kg	SXS 60K-2M	850,-	64	1	○	•	○	•	•	•	○
10 | 20 g	30 | 60 kg	SXS 60K-2LM	1160,-	64	1	○	•	○	•	•	•	○
20 g	60 kg	SFB 60K20HIPM	770,-	63	1		•	○	•	•	•	•
20 g	60 kg	SFB 60K20LHIPM	830,-	63	1		•	○	•	•	•	•
20 g	60 kg	SFB 60K-2XLM	1030,-	63	1		•	○	•	•	•	•
20 g	200 kg	SFB 200K-2XL	1270,-	63	2		•	○	•	•	•	•
20 | 50 g	60 | 150 kg	SXS 100K-2M	1160,-	64	1	○	•	○	•	•	•	○
20 | 50 g	60 | 150 kg	SXS 100K-2LM	1450,-	64	1	○	•	○	•	•	•	○
50 g	150 kg	SFB 100K-2HM	820,-	63	1		•	○	•	•	•	•
50 g	150 kg	SFB 100K-2LM	1030,-	63	1		•	○	•	•	•	•
50 g	150 kg	SFB 100K-2XLM	1290,-	63	1		•	○	•	•	•	•
50 | 100 g	150 | 300 kg	SXS 300K-2M	1450,-	64	1	○	•	○	•	•	•	○
100 g	300 kg	SFB 300K-1LM	1290,-	63	1		•	○	•	•	•	•

For an explanation on the pictos, see the front flap

NEW 2017 ● = standard ○ = option

06

Stainless steel bench scales KERN FOB-S · FOB-NS

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	
	· Your support in a **HACCP**-compliant quality system · **Ready for use:** Batteries included, 9 V Block, operating time up to 20 h	· **Particularly flat design** · **Protection against dust and water splashes IP65** (only when using battery) · **Ready for use:** Batteries included, 9 V Block, operating time up to 24 h
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 · Net weight approx. 0,7 kg · Permissible ambient temperature 10 °C/40 °C	· Large LCD display, digit height 20 mm · Overall dimensions W×D×H 170×150×40 mm · Net weight approx. 0,8 kg · Permissible ambient temperature 10 °C/35 °C
Accessories	· **Protective working cover,** can be re-ordered, scope of delivery: 5 items, KERN FOB-A11S05, **€ 50,-** · **Mains adapter external,** not included, can be reordered, KERN FOB-A09, **€ 35,-**	· **Protective working cover,** can be re-ordered, scope of delivery: 5 items, KERN FOB-A12S05, **€ 50,-** · **Mains adapter external,** not included, can be reordered, KERN FOB-A09, **€ 35,-**

STANDARD FOB-S

OPTION

STANDARD FOB-NS

OPTION

Model	Weighing range	Readout	Weighing plate W×D	**Price** excl. of VAT ex works	Options DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	mm	**€**	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,-

⬇ Price reduction

Stainless steel bench scales KERN FOB · FOB-N

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	
	· **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) · **Ready for use:** Batteries included, 4×1.5 V AA, operating time up to 48 h

Technical data	· Large LCD display, digit height 25 mm
	· Dimensions weighing surface, stainless steel
	  Ⓐ W×D 175×160 mm Ⓑ W×D 215×215 mm
	· Overall dimensions W×D×H
	  Ⓐ 175×235×60 mm Ⓑ 220×305×80 mm
	· Net weight
	  Ⓐ approx. 2,2 kg Ⓑ 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
		· Overall dimensions W×D×H 285×255×90 mm
		· Net weight approx. 3,8 kg
		· Permissible ambient temperature 5 °C/35 °C

Accessories	· **Protective working cover,** can be re-ordered, scope of delivery: 5 items, for models with weighing plate size
	  Ⓐ KERN FOB-A05S05, **€ 40,-**
	  Ⓑ KERN FOB-A06S05, **€ 40,-**
	· **Rechargeable battery pack internal,** for models with weighing plate size
	  Ⓐ operating time up to24 h, without backlight, charging time approx. 8 h, KERN FOB-A07, **€ 45,-**
	  Ⓑ operating time up to30 h, without backlight, charging time approx. 14 h, KERN FOB-A08, **€ 55,-**
		· **Protective working cover,** can be re-ordered, scope of delivery: 5 items, KERN FOB-A13S05, **€ 50,-**
		· **Mains adapter external,** not included, can be reordered, KERN FOB-A01, **€ 35,-**

STANDARD						OPTION		FACTORY		STANDARD							OPTION	
CAL EXT	INOX	230 V	DMS	1 DAY	3 YEARS WARRANTY	ACCU	DAkkS +3 DAYS	M +3 DAYS		CAL EXT	IP 67	INOX	BATT	DMS	1 DAY	2 YEARS WARRANTY	230 V	DAkkS +3 DAYS

Model	Weighing range	Readout	Verification value	Minimal load	Weighing plate W×D	Price excl. of VAT ex works	Options			
							Verification		DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	[e] g	[Min] g	mm	**€**	M Ⓜ KERN	€	DKD KERN	€
FOB 1.5K0.5	1,5	0,5	-	-	175×165	**175,-**	-	-	963-127	72,-
FOB 3K1	3	1	-	-	175×165	**180,-** ⬇	-	-	963-127	72,-
FOB 6K2	6	2	-	-	175×165	**175,-** ⬇	-	-	963-128	88,-
FOB 15K1L	15	1	-	-	215×215	**320,-**	-	-	963-128	88,-
FOB 30K2L*	30	2	-	-	215×215	**320,-**	-	-	963-128	88,-
FOB 1K1M	1	1	1	20	175×165	**195,-**	965-227	55,-	963-127	72,-
FOB 7K-4NL	5 | 7,5	0,5 | 1	-	-	252×200	**235,-**	-	-	963-128	88,-
FOB 10K-3NL	8 | 15	1 | 2	-	-	252×200	**240,-**	-	-	963-128	88,-
FOB 30K-3NL	16 | 30	2 | 5	-	-	252×200	**240,-**	-	-	963-128	88,-

⚠ *ONLY WHILE STOCKS LAST !   ⬇ Price reduction

IP protected bench scale KERN WTB-N

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

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 285×315×128 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Protective working cover**, standard, can be re-ordered, scope of delivery: 5 items, KERN RFB-A01S05, **€ 30,-**
- **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,-**
- Sturdy transport case to protect and store the scale, dimensions W×D×H 510×360×220 mm, KERN RFB-A02, **€ 110,-**

STANDARD: CAL EXT | UNIT | TOL [1] | IP 65 | MULTI | DMS | 1 DAY | 2 YEARS WARRANTY
OPTION: ACCU | DAkkS +3 DAYS
FACTORY: M +3 DAYS

Model	Weighing range	Readout	Verification value	Minimal load	Price excl. of VAT ex works	Options Verification		DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	g	[Min] g	€	M III KERN	€	DKD KERN	€
WTB 1K-4N	1,5	0,2	-	-	**240,-**	-	-	963-127	72,-
WTB 3K-4N	3	0,5	-	-	**240,-**	-	-	963-127	72,-
WTB 6K-3N	6	1	-	-	**240,-**	-	-	963-128	88,-
WTB 10K-3N	15	2	-	-	**240,-**	-	-	963-128	88,-
WTB 30K-3N	30	5	-	-	**240,-**	-	-	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	**260,-**	965-227	55,-	963-127	72,-
WTB 3K-3NM	3	1	1	20	**260,-**	965-227	55,-	963-127	72,-
WTB 6K-3NM	6	2	2	40	**260,-**	965-228	55,-	963-128	88,-
WTB 10K-3NM	15	5	5	100	**260,-**	965-228	55,-	963-128	88,-
WTB 30K-2NM	30	10	10	200	**260,-**	965-228	55,-	963-128	88,-

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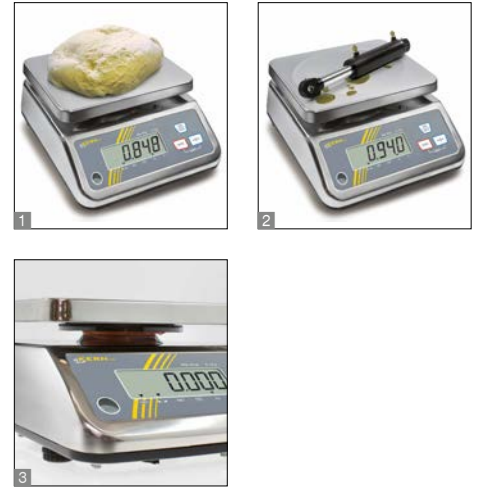
All-round bench scale, protected by stainless steel and IP65 rating, now also with EC type approval [M]

Features

- 1 **Ideal for the increased hygienic requirements** in the food, pharmaceutical and chemical industries
- 2 Ideal for the robust industrial applications
- Your support in a **HACCP**-compliant quality system
- **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

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
  FFN-N: 0 °C/40 °C
  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 | CAL EXT | UNIT | IP 65 3 | INOX | ACCU | MULTI B | 1 DAY | 2 YEARS WARRANTY

OPTION | DAkkS +3 DAYS

FACTORY | M +3 DAYS

Model	Weighing range	Readout	Verification value	Minimal load	Price excl. of VAT ex works	Options			
						Verification		DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	[e] g	[Min] g	€	M Ⅲ KERN	€	DKD KERN	€
FFN 1K-4N	1,5	0,2	-	-	**275,-**	-	-	963-127	72,-
FFN 3K0.5IPN	3	0,5	-	-	**275,-**	-	-	963-127	72,-
FFN 6K1IPN	6	1	-	-	**275,-**	-	-	963-128	88,-
FFN 15K2IPN	15	2	-	-	**275,-**	-	-	963-128	88,-
FFN 25K5IPN	25	5	-	-	**275,-**	-	-	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	**295,-**	965-227	55,-	963-127	72,-
FFN 3K1IPM	3	1	1	20	**295,-**	965-227	55,-	963-127	72,-
FFN 6K2IPM	6	2	2	40	**295,-**	965-228	55,-	963-128	88,-
FFN 15K5IPM	15	5	5	100	**295,-**	965-228	55,-	963-128	88,-
FFN 25K10IPM	25	10	10	200	**295,-**	965-228	55,-	963-128	88,-

IP protected bench scale FXN · FXN-N
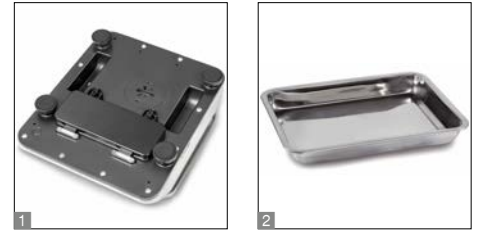
KERN FXN-N

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 (check-weighing):** a visual and audible signal helps with portioning, dispensing or grading

Technical data

- Large backlit LCD display, 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 with backlight, AUTO-OFF function to preserve the battery
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °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

| CAL EXT | PCS | UNIT | TOL | IP 68 | INOX | BATT | DMS | 1 DAY | 2 YEARS WARRANTY | DAkkS +3 DAYS |

Model	Weighing range	Readout	Reproducibility	Linearity	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	g	g	€	DKD KERN	€
FXN 3K-4N	3	0,5	0,5	± 1	**335,-**	963-127	72,-
FXN 6K-3N	6	1	1	± 2	**335,-**	963-128	88,-
FXN 10K-3N	15	2	2	± 4	**335,-**	963-128	88,-
FXN 30K-3N	30	5	5	± 10	**335,-**	963-128	88,-
FXN 3K-3*	3	1	1	± 2	**235,-** ⬇	963-127	72,-
FXN 6K-3*	6	2	2	± 4	**235,-** ⬇	963-128	88,-
FXN 10K-3*	15	5	5	± 10	**235,-** ⬇	963-128	88,-
FXN 30K-2*	30	10	10	± 20	**235,-** ⬇	963-128	88,-

⚠ *ONLY WHILE STOCKS LAST !   ⬇ Price reduction

Stainless steel platform scale SFB

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

- 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

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,** as standard, for models with weighing plate size 300×240 mm: Column height approx 200 mm 400×300 mm: Column height approx. 400 mm

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm

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 null, can be retrofitted, KERN BFS-A07, **€ 120,-**
- Suitable printers see *Accessories*

STANDARD										OPTION	FACTORY
CAL EXT	GLP INTERN	PCS	SUM	TOL	IP 65	IP 67	INOX	ACCU	MULTI	DMS	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS	RS 232	M +3 DAYS SFB-M/ SFB-HM

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimal load [Min]	Net weight approx.	Weighing plate W×D	Price excl. of VAT ex works	Options			
								Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	kg	kg	mm	€	M KERN	€	DKD KERN	€
SFB 50K-3XL	50	5	-	-	14	500×400	930,-	-	-	963-128	88,-
SFB 100K-2L*	100	10	-	-	14	500×400	930,-	-	-	963-129	105,-
SFB 100K-2XL	100	10	-	-	26	650×500	1270,-	-	-	963-129	105,-
SFB 200K-2XL*	200	20	-	-	26	650×500	1270,-	-	-	963-129	105,-
with elevated display											
SFB 10K1HIP	10	1	-	-	8	300×240	750,-	-	-	963-128	88,-
SFB 20K2HIP	20	2	-	-	9	300×240	760,-	-	-	963-128	88,-
SFB 50K5HIP	50	5	-	-	9	300×240	750,-	-	-	963-128	88,-
SFB 50K5LHIP	50	5	-	-	13	650×500	820,-	-	-	963-128	88,-
SFB 100K10HIP	100	10	-	-	13	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 60K-2XLM	60	20	20	0,4	16	500×400	1030,-	965-229	93,-	963-129	105,-
SFB 100K-2LM	150	50	50	1	16	500×400	1030,-	965-229	93,-	963-129	105,-
SFB 100K-2XLM	150	50	50	1	24	660×505	1290,-	965-229	93,-	963-129	105,-
SFB 300K-1LM*	300	100	100	2	26	650×500	1290,-	965-229	93,-	963-129	105,-
with elevated display											
SFB 15K5HIPM	15	5	5	0,1	8	300×240×100	770,-	965-228	55,-	963-128	88,-
SFB 30K10HIPM	30	10	10	0,2	8	300×240×100	770,-	965-228	55,-	963-128	88,-
SFB 60K20HIPM*	60	20	20	0,4	9	300×240×100	770,-	965-229	93,-	963-129	105,-
SFB 60K20LHIPM	60	20	20	0,4	13	400×300×128	830,-	965-229	93,-	963-129	105,-
SFB 100K-2HM	150	50	50	1	14	400×300×128	820,-	965-229	93,-	963-129	105,-

*ONLY WHILE STOCKS LAST !

Stainless steel platform scale KERN SXS

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 IP67. Substruction in wing design, extremely resistant to bending
- **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 the RS-232, RS-485 and Bluetooth (optional) **interfaces**, the scale can easily be connected to existing networks. Data exchange between the scale, PC or 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, **€ 40,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 85,-**
- **Foot switch**, must be ordered at purchase, KERN KXS-A03, **€ 70,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KXS-A02, **€ 110,-**
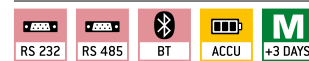- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD | **OPTION** | **FACTORY**

CAL EXT · GLP PRINTER · PCS · TOL · MOVE · IP 67 [1] · IP 68 [2] · INOX · 230 V · DMS · 1 DAY · 3 YEARS WARRANTY | DAkkS +3 DAYS | 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 M Ⅲ KERN	€	DAkkS Calibr. Certificate DKD KERN	€
SXS 6K-3M	3 | 6	1 | 2	1 | 2	20 | 40	6	A	**690,-**	965-228	55,-	963-128	88,-
SXS 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	7	A	**690,-**	965-228	55,-	963-128	88,-
SXS 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	12	B	**850,-**	965-228	55,-	963-128	88,-
SXS 30K-2M	15 | 30	5 | 10	5 | 10	100 | 200	12	B	**860,-**	965-228	55,-	963-128	88,-
SXS 30K-2LM	15 | 30	5 | 10	5 | 10	100 | 200	22	C	**1160,-**	965-228	55,-	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	38	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

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.
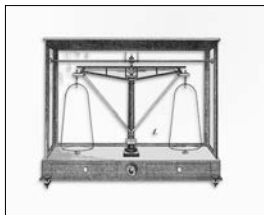
▸ 1844
KERN is founded – precision balances are produced

▸ 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

KERN & SOHN GmbH
Balances, Test weights, DAkkS Calibration laboratory
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APPROVAL FOR MANUFACTURE **OF MEDICAL PRODUCTS** EN 13485 and 93/42/EEC

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

German Excellence Group
Member