KERN®

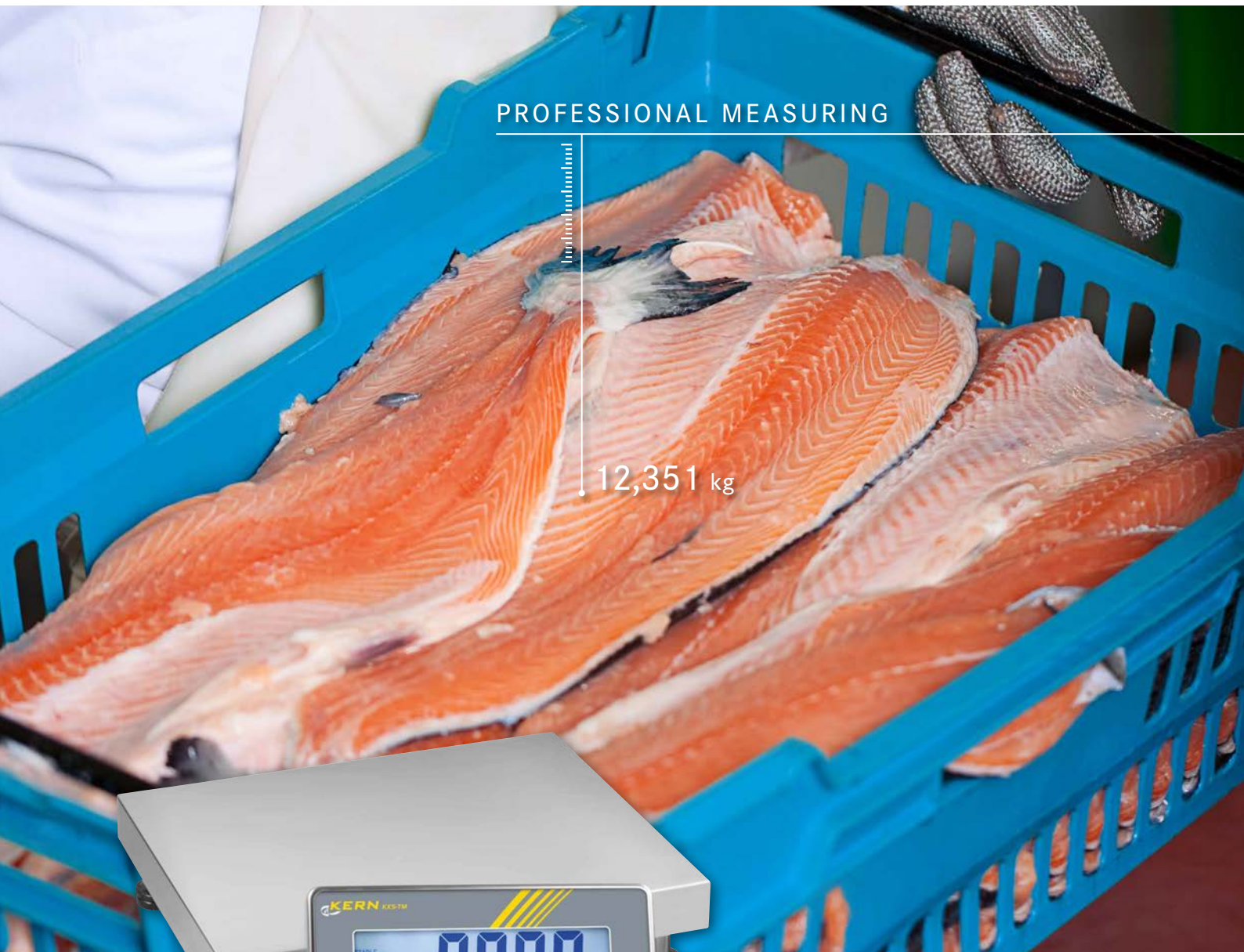# STAINLESS STEEL/PROTECTION AGAINST DUST AND WATER SPLASHES IP65...68

PROFESSIONAL MEASURING

12,351 kg

2015

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.

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.

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"

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. Additional convenient functions, such as barcode and back calculation functions.

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

Totalising level C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation.

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.

Vibration-free weighing:
(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 the glossary.

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.

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

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

Strain gauges:
Electrical resistor on an elastic deforming body.

Tuning fork principle:
A resonating body is electromagnetically excited, causing it to oscillate.

Electromagnetic force compensation:
Coil inside a permanent magnet. For the most accurate weighings.

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:
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.

Medical scales catalogue

Complete line of medical scales, from infant scales to professional patient scales, chair scales and adiposity scales, as well as innovative hand grip dynamometres, 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 hardness measuring systems.

KERN DAkkS calibration service brochure

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

KERN branch prospectuses

Compact overview of the best-sellers for many different lines of business – just the balances your customers need!

The gnome guide

Travel report from KERN, the famous scientific gnome, who travelled all over the world, in order to illustrate the physical law of gravitational force. Ideal for use in school education – please request, it's free of charge.

170 years of KERN

Interesting and readable overview of the history of the origins of Southern German balance manufacturing, as well as the company history, which stretches right back to 1770 – please request, it's free of charge.

Your advantages

Quick Delivery
Items in stock are sent the same day if orders are placed before 1:00 pm (valid for parcel service delivery within the EC).

Price performance ratio
KERN scales are always an inexpensive alternative. They are durable, uncomplicated and easy to place into operation.

Direct dispatch
of ordered goods to your customer is available, with personalised delivery note if desired (please ask), invoice will be issued to you (third party business).

3 years warranty
Items under € 400,–

No stock-keeping necessary.
KERN does the warehousing for you.

Sale or return
within 14 days of purchase.

WTB-N	70
Ideal for the food industry, thanks to its IP65 protection and special checkweighing display, now also with EC type approval [M]	
FOB-S / FOB	71
Compact stainless steel scales, also with EC type approval [M]	
FOB-NS / FOB-N	72
Compact stainless steel scales with high-level protection against dust and water splashes	
FFN-N	73
Robust, space-saving bench scale, stainless steel and IP65 protected, also with EC type approval [M]	

FXN	74
Robust, space-saving bench scale, stainless steel and IP68 protected	
SFB / SFB-H	75
Stainless steel platform scales with IP65 protection, also with XL platform or EC type approval [M]	
SXS	76
Stainless steel platform scale with stainless steel IP68 display and EC type approval [M]	

KERN scales – not scared of water at all!

Scales used in industrial situations 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).

The stainless steel weighing plates of the IP65...68 protected KERN stainless steel balances meet the 1.4301 (DIN X5CrNi18-10) standard and support you in your HACCP-compliant quality system.

Your KERN product specialist will be happy to help:

Tobias Baiker
Product specialist Stainless steel

Tel.   +49 [0] 7433 9933- 118
Fax   +49 [0] 7433 9933- 29118
tobias.baiker@kern-sohn.com

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.

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 ready for shipping	M	CAL EXT	RS 232	TOL	IP	INOX	ACCU
0,1 g	0,5 kg	FOB 500-1S	75,-	71	1		●				●	
0,1 g	0,5 kg	FOB 0.5K-4NS	100,-	72	1		●			●	●	
0,2 g	1,5 kg	WTB 1K-4N	235,-	70	1		●		○	●		○
0,2 g	1,5 kg	FFN 1K-4N	260,-	73	1		●			●	●	●
0,5 g	1,5 kg	FOB 1.5K0.5	175,-	71	1		●				●	○
0,5 g	1,5 kg	WTB 1K-4NM	255,-	70	1	○	●		●	●		○
0,5 g	1,5 kg	FFN 1K-4NM	275,-	73	1	○	●			●	●	●
0,5 g	3 kg	WTB 3K-4N	235,-	70	1		●		●	●		○
0,5 g	3 kg	FFN 3K0.5IPN	260,-	73	1		●			●	●	●
0,5 | 1 g	5 | 7,5 kg	FOB 7K-4NL	230,-	72	1		●			●	●	○
1 g	1 kg	FOB 1K1M	180,-	71	1	○	●				●	○
1 g	3 kg	FOB 3K1	175,-	71	1		●				●	○
1 g	3 kg	WTB 3K-3NM	255,-	70	1	○	●		●	●		○
1 g	3 kg	FFN 3K1IPM	275,-	73	1	○	●			●	●	●
1 g	3 kg	FXN 3K-3	320,-	74	1		●		●	●	●	
1 g	5 kg	FOB 5K1S	75,-	71	1		●				●	
1 g	5 kg	FOB 5K-3NS	100,-	72	1		●			●	●	
1 g	6 kg	WTB 6K-3N	235,-	70	1		●		●	●		○
1 g	6 kg	FFN 6K1IPN	260,-	73	1		●			●	●	●
1 g	10 kg	SFB 10K1HIP	710,-	75	1		●	○	●	●	●	●
1 g	15 kg	FOB 15K1L	320,-	71	1		●				●	○
1 | 2 g	3 | 6 kg	SXS 6K-3M	630,-	76	1	○	●	○	●	●	●	●
1 | 2 g	8 | 15 kg	FOB 10K-3NL	230,-	72	1		●			●	●	○
2 g	6 kg	FOB 6K2	175,-	71	1		●				●	○
2 g	6 kg	WTB 6K-3NM	255,-	70	1	○	●		●	●		○
2 g	6 kg	FFN 6K2IPM	275,-	73	1	○	●			●	●	●
2 g	6 kg	FXN 6K-3	320,-	74	1		●		●	●	●	
2 g	15 kg	WTB 10K-3N	235,-	70	1		●		●	●		○
2 g	15 kg	FFN 15K2IPN	260,-	73	1		●			●	●	●
2 g	20 kg	SFB 20K2HIP	710,-	75	1		●	○	●	●	●	●
2 g	30 kg	FOB 30K2L	320,-	71	1		●				●	○
2 | 5 g	6 | 15 kg	SXS 10K-3M	640,-	76	1	○	●	○	●	●	●	●
2 | 5 g	6 | 15 kg	SXS 10K-3LM	770,-	76	1	○	●	○	●	●	●	●
2 | 5 g	16 | 30 kg	FOB 30K-3NL	230,-	72	1		●			●	●	○
5 g	15 kg	WTB 10K-3NM	255,-	70	1	○	●		●	●		○
5 g	15 kg	FFN 15K5IPM	275,-	73	1	○	●			●	●	●
5 g	15 kg	FXN 10K-3	320,-	74	1		●		●	●	●	
5 g	15 kg	SFB 15K5HIPM	720,-	75	1	○	●	○	●	●	●	●
5 g	25 kg	FFN 25K5IPN	260,-	73	1		●			●	●	●
5 g	30 kg	WTB 30K-3N	235,-	70	1		●		●	●		○
5 g	50 kg	SFB 50K5HIP	710,-	75	1		●	○	●	●	●	●
5 g	50 kg	SFB 50K5LHIP	740,-	75	1		●	○	●	●	●	●
5 g	50 kg	SFB 50K-3XL	900,-	75	1		●	○	●	●	●	●
5 | 10 g	15 | 30 kg	SXS 30K-2M	740,-	76	1	○	●	○	●	●	●	●
5 | 10 g	15 | 30 kg	SXS 30K-2LM	1050,-	76	1	○	●	○	●	●	●	●
10 g	25 kg	FFN 25K10IPM	275,-	73	1	○	●			●	●	●
10 g	30 kg	WTB 30K-2NM	255,-	70	1	○	●		●	●		○
10 g	30 kg	FXN 30K-2	320,-	74	1		●		●	●	●	
10 g	30 kg	SFB 30K10HIPM	720,-	75	1	○	●	○	●	●	●	●
10 g	100 kg	SFB 100K10HIP	750,-	75	1		●	○	●	●	●	●
10 g	100 kg	SFB 100K-2L	840,-	75	1		●	○	●	●	●	●
10 g	100 kg	SFB 100K-2XL	1160,-	75	1		●	○	●	●	●	●
10 | 20 g	30 | 60 kg	SXS 60K-2M	750,-	76	1	○	●	○	●	●	●	●
10 | 20 g	30 | 60 kg	SXS 60K-2LM	1050,-	76	1	○	●	○	●	●	●	●
20 g	60 kg	SFB 60K20HIPM	830,-	75	1	○	●	○	●	●	●	●
20 g	60 kg	SFB 60K20LHIPM	860,-	75	1	○	●	○	●	●	●	●
20 g	60 kg	SFB 60K-2XLM	930,-	75	1	○	●	○	●	●	●	●
20 g	200 kg	SFB 200K-2XL	1160,-	75	1		●	○	●	●	●	●
20 | 50 g	60 | 150 kg	SXS 100K-2M	1050,-	76	1	○	●	○	●	●	●	●
20 | 50 g	60 | 150 kg	SXS 100K-2LM	1290,-	76	1	○	●	○	●	●	●	●
50 g	120 kg	SFB 120K50HIPM	860,-	75	1	○	●	○	●	●	●	●
50 g	150 kg	SFB 100K-2HM	870,-	75	1	○	●	○	●	●	●	●
50 g	150 kg	SFB 100K-2LM	830,-	75	1	○	●	○	●	●	●	●
50 g	150 kg	SFB 100K-2XLM	1170,-	75	1	○	●	○	●	●	●	●
50 | 100 g	150 | 300 kg	SXS 300K-2M	1290,-	76	1	○	●	○	●	●	●	●
100 g	300 kg	SFB 300K-1LM	1170,-	75	1	○	●	○	●	●	●	●

For an explanation on the pictos, see the front flap

● = Standard   ○ = Option

IP protected bench scale KERN WTB-N

Ideal for the 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**
- ▦ **IP65:** Protected against dust and water splashes (only when using rechargeable battery pack)
- Weighing plate stainless steel, removable, for easy cleaning
- Your support in an **HACCP**-compliant quality system
- ▦ **Second display** on the rear of the balance
- ▦ **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 its rechargeable batteries (optional) and low weight
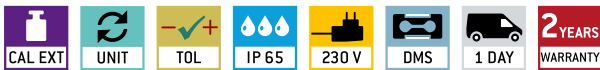- **Recessed grips on the underside** of the scale for easy transportation

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions WxD 260x200 mm
- Overall dimensions WxDxH 286x316x126.5 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, can be retrofitted, KERN RFB-A01, **€ 25,-**
- **Rechargeable battery pack internal**, operating time up to 50 h, charging time approx. 12 h, can be retrofitted, KERN WTB-A01N, **€ 35,-**
- ▦ **Tare pan made of stainless steel**, ideal for weighing loose fruit and vegetables, WxDxH 370x240x20 mm, for details see page 161, KERN RFS-A02, **€ 50,-**
- **Sturdy transport case** to protect and store the scale, dimensions WxDxH 510x360x220 mm, for details see page 162, KERN RFB-A02, **€ 95,-**

STANDARD

CAL EXT	UNIT	TOL	IP 65	230 V	DMS	1 DAY	2 YEARS WARRANTY

OPTION

ACCU	DAkkS +3 DAYS

FACTORY

M +3 DAYS only WTB-M

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Price excl. of VAT ex works	Options			
						Verification		DAkkS-Calibr. Certificate	
KERN	kg	g	g	g	€	M▥ KERN	€	DAkkS KERN	€
WTB 1K-4N	1,5	0,2	–	–	**235,-**	–	–	963-127	72,-
WTB 3K-4N	3	0,5	–	–	**235,-**	–	–	963-127	72,-
WTB 6K-3N	6	1	–	–	**235,-**	–	–	963-128	88,-
WTB 10K-3N	15	2	–	–	**235,-**	–	–	963-128	88,-
WTB 30K-3N	30	5	–	–	**235,-**	–	–	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 NEW	1,5	0,5	0,5	10	**255,-**	965-227	55,-	963-127	72,-
WTB 3K-3NM NEW	3	1	1	20	**255,-**	965-227	55,-	963-127	72,-
WTB 6K-3NM NEW	6	2	2	40	**255,-**	965-228	55,-	963-128	88,-
WTB 10K-3NM NEW	15	5	5	100	**255,-**	965-228	55,-	963-128	88,-
WTB 30K-2NM NEW	30	10	10	200	**255,-**	965-228	55,-	963-128	88,-

NEW New model

Stainless steel scales KERN FOB-S · FOB

KERN FOB-S

KERN FOB

Compact stainless steel scales, also with EC type approval [M]

	KERN FOB-S	KERN FOB
Features	• **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean • **High mobility:** thanks to compact, flat construction, it is suitable for use in several locations (kitchen, sales office, market stall etc.) • Secure and non-slip positioning through rubber feet • Your support in an **HACCP**-compliant quality system	
	• **Ready for use:** battery 9 V Block standard, operating time up to 20 h • **Particularly flat design**	• **Increased protection against humidity** through waterproof silicone sealing of the load cell, electronics and soldering joints • Only FOB, FOB-L: **Net/Gross weight:** to control the consumed weighing range at the touch of a key

Technical data	• Large LCD display, digit height 20 mm
	• Weighing plate dimensions, stainless steel WxD
	  Ⓐ 120x150 mm
	• Overall dimensions WxDxH 170x150x40 mm
	• Net weight approx. 0,65 kg
	• Permissible ambient temperature 10 °C / 40 °C
		• Large LCD display, digit height 25 mm
		• Weighing plate dimensions, stainless steel WxD
		  Ⓑ 175x160 mm, Ⓒ 215x215 mm
		• Overall dimensions WxDxH
		  Ⓑ 175x235x60 mm, Ⓒ 220x305x80 mm
		• Net weight Ⓑ approx. 1,95 kg, Ⓒ approx. 3,3 kg,
		• Permissible ambient temperature -10 °C / 40 °C

Accessories	• **Protective working cover** over keyboard and housing, standard, can be reordered, KERN FOB-A11, **€ 25,-**
	• **Mains adapter external,** not included, can be reordered, KERN FOB-A09, **€ 30,-**
		• **Protective working cover** over keyboard and housing, standard, can be reordered, for weighing plate size
		  Ⓑ KERN FOB-A05, **€ 25,-**, Ⓒ KERN FOB-A06, **€ 25,-**
		• **Rechargeable battery pack internal,** for weighing plate size
		  Ⓑ operating time approx. 24 h without backlight, charging time approx. 8 h, KERN FOB-A07, **€ 45,-**
		  Ⓒ operating time approx. 30 h without backlight, charging time approx. 14 h, KERN FOB-A08, **€ 55,-**

STANDARD						OPTION
CAL EXT	INOX	BATT	DMS	1 DAY	2 YEARS WARRANTY	DAkkS +3 DAYS

STANDARD						OPTION	FACTORY
CAL EXT	INOX	230 V	DMS	1 DAY	2 YEARS WARRANTY	ACCU	DAkkS +3 DAYS	M +3 DAYS only FOB-M

Model	Weighing range [Max]	Readout [d]	Verific. value [e]	Minimum load [Min]	Weighing plate	Price excl. of VAT ex works	Options			
							Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g		€	M KERN	€	DAkkS KERN	€
FOB 500-1S	0,5	0,1	–	–	Ⓐ	**75,-**	–	–	963–127	72,-
FOB 5K1S	5	1	–	–	Ⓐ	**75,-**	–	–	963–127	72,-
FOB 1.5K0.5	1,5	0,5	–	–	Ⓑ	**175,-**	–	–	963–127	72,-
FOB 3K1	3	1	–	–	Ⓑ	**175,-**	–	–	963–127	72,-
FOB 6K2	6	2	–	–	Ⓑ	**175,-**	–	–	963–128	88,-
FOB 15K1L	15	1	–	–	Ⓒ	**320,-**	–	–	963–128	88,-
FOB 30K2L	30	2	–	–	Ⓒ	**320,-**	–	–	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.										
FOB 1K1M	1	1	1	20	Ⓑ	**180,-**	965-227	55,-	963–127	72,-

Stainless steel scales KERN FOB-NS · FOB-N

NEW

NEW

KERN FOB-NS

KERN FOB-N

Compact stainless steel scales with high-level
protection against dust and water splashes

	KERN FOB-NS	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 compact, flat construction, it is suitable for use in several locations (kitchen, sales office, market stall, etc.) • Secure and non-slip positioning through rubber feet • Your support in an **HACCP**-compliant quality system	
	• **IP65:** Protected against dust and water splashes (only when using battery) • **Ready for use:** battery 9 V Block standard, operating time up to 24 h • **Particularly flat design**	• **IP67:** Protected against dust and water splashes (only when using battery or rechargeable battery pack) • **Ready for use:** battery 4x 1.5 V AA standard, operating time up to 66 h without backlight
Technical data	• Large LCD display, digit height 20 mm • Overall dimensions WxDxH 170x150x40 mm • Permissible ambient temperature 10 °C / 35 °C	• Large backlit LCD display, digit height 25 mm • Overall dimensions WxDxH 285x255x90 mm • Permissible ambient temperature 5 °C / 35 °C
Accessories	• **Protective working cover** over keyboard and housing, standard, can be reordered, KERN FOB-A12, **€ 25,-** • **Mains adapter external,** not included, can be reordered, KERN FOB-A09, **€ 30,-**	• **Protective working cover** over keyboard and housing, standard, can be reordered, KERN FOB-A13, **€ 25,-** • **Mains adapter external,** not included, can be reordered, KERN FOB-A09, **€ 30,-**

STANDARD

| CAL EXT | IP 65 | INOX | BATT | DMS | 1 DAY | 2 YEARS WARRANTY |

STANDARD

| CAL EXT | IP 67 | INOX | BATT | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| 230 V | DAkkS +3 DAYS |

OPTION

| 230 V | ACCU | DAkkS +3 DAYS |

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight kg	Weighing plate mm	Price excl. of VAT ex works €	Options DAkkS Calibration Certificate	
						DAkkS KERN	€
FOB 0.5K-4NS	0,5	0,1	0,65	120x150	**100,-**	963-127	72,-
FOB 5K-3NS	5	1	0,65	120x150	**100,-**	963-127	72,-
FOB 7K-4NL	5 | 7,5	0,5 | 1	3,61	252x200	**230,-**	963-128	88,-
FOB 10K-3NL	8 | 15	1 | 2	3,61	252x200	**230,-**	963-128	88,-
FOB 30K-3NL	16 | 30	2 | 5	3,61	252x200	**230,-**	963-128	88,-

IP protected bench scale KERN FFN-N

Robust, space-saving bench scale, stainless steel and IP65 protected, also with EC type approval [M]

Features

- ▨ **Ideal for the food industry**
- ▨ **Ideal for robust industrial appl.**
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations such as production, kitchen, sales office etc.
- **Stainless steel housing**, rust-proof and easy to clean
- **Recessed grips on the underside** of the scale for easy transportation
- ▨ **IP65:** Protected against dust and water splashes (only when using rechargeable battery pack)
- Your support in an **HACCP**-compliant quality system

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions stainless steel, WxD 230x190 mm
- Overall dimensions 230x300x130 mm
- Rechargeable battery pack internal, standard, operating time up to 50 h without backlight, charging time approx. 12 h
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 161, KERN RFS-A02, **€ 50,-**

STANDARD | OPTION | FACTORY

| CAL EXT | UNIT | IP 65 | INOX | ACCU | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY | DAkkS +3 DAYS | M +3 DAYS only FFN-M |

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Price excl. of VAT ex works	Options			
						Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	€	M⨳ KERN	€	DAkkS KERN	€
FFN 1K-4N	1,5	0,2	–	–	**260,-**	–	–	963-127	72,-
FFN 3K0.5IPN	3	0,5	–	–	**260,-**	–	–	963-127	72,-
FFN 6K1IPN	6	1	–	–	**260,-**	–	–	963-128	88,-
FFN 15K2IPN	15	2	–	–	**260,-**	–	–	963-128	88,-
FFN 25K5IPN	25	5	–	–	**260,-**	–	–	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 [NEW]	1,5	0,5	0,5	10	**275,-**	965-227	55,-	963-127	72,-
FFN 3K1IPM	3	1	1	20	**275,-**	965-227	55,-	963-127	72,-
FFN 6K2IPM	6	2	2	40	**275,-**	965-228	55,-	963-128	88,-
FFN 15K5IPM	15	5	5	100	**275,-**	965-228	55,-	963-128	88,-
FFN 25K10IPM	25	10	10	200	**275,-**	965-228	55,-	963-128	88,-

[NEW] New model

IP protected bench scale KERN FXN

NEW
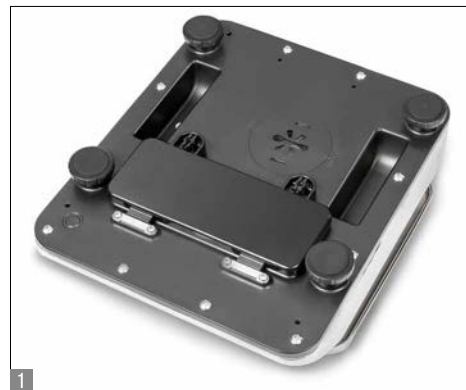
Robust, space-saving bench scale, stainless steel and IP68 protected

Features

- **Ideal for the food industry**
- **Ideal for robust industrial application**
- **IP68 protection:** very high class of protection against dust and water. Making it very robust and durable. Ideal for harsh ambient conditions. Submersion in water actually possible
- **Stainless steel housing**, rust-proof and easy to clean
- **Very fast display:** steady weight values within 2 sec
- **High mobility:** Battery operation, compact construction and low weight make this balance ideal for use in several locations (production, kitchen, sales office etc.)
- **Recessed grips on the underside** of the scale for easy transportation

- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading
- Your support in an **HACCP**-compliant quality system

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxD 236x195 mm
- Overall dimensions WxDxH 240x280x120 mm
- Ready for use: Batteries included, 4 x 1.5 V Size D, operating time up to 200 h, AUTO-OFF function to preserve the batteries, can be switched off
- Net weight approx. 3,5 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 161, KERN RFS-A02, **€ 50,-**

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

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
							DAkkS KERN	€
FXN 3K-3	3	1	1	± 2	0,5	**320,-**	963-127	72,-
FXN 6K-3	6	2	2	± 4	1	**320,-**	963-128	88,-
FXN 10K-3	15	5	5	± 10	2	**320,-**	963-128	88,-
FXN 30K-2	30	10	10	± 20	5	**320,-**	963-128	88,-

06

Stainless steel platform scales KERN SFB · SFB-H

1 KERN SFB

3 KERN SFB-H

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

Features

- **Ideal for robust industrial application**
- **Scale entirely out of stainless steel**
- ▓ **Load cell stainless steel**, silicone-coated, IP67
- ▓ **Display device: IP65** (only when using rechargeable battery pack)
- ▓ only SFB-H: **Stand** to elevate display device, standard, for models with weighing plate size
  300x240 mm: height of stand approx. 200 mm
  400x300 mm: height of stand approx. 400 mm, ▓, enlarged picture

- Your support in an **HACCP**-compliant quality system

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 2 m
- Rechargeable battery pack internal, standard, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature SFB: 0 °C / 40 °C, SFB-M: -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,-**
- Only SFB: **Stand** to elevate display device, to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01, **€ 70,-**
- **Suitable printers** an extensive accessories range, see page 157 ff.

STANDARD

CAL EXT	GLP PRINTER	PCS	SUM	TOL	IP 65	IP 67	INOX	ACCU	230 V	DMS	1 DAY	3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

FACTORY

RS 232	M +3 DAYS only SFB-M/SFB-HM
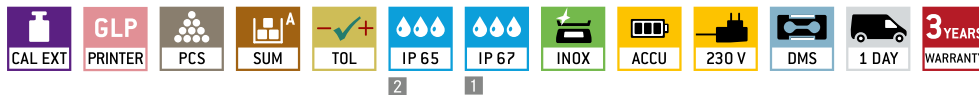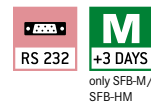
Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate WxD mm	Price excl. of VAT ex works €	Verification M KERN	Verification €	DAkkS Calibr. Certificate DAkkS KERN	DAkkS Calibr. Certificate €
SFB 50K-3XL	50	5	–	–	15	500x400	900,-	–	–	963-128	88,-
SFB 100K-2L	100	10	–	–	15	500x400	840,-	–	–	963-129	105,-
SFB 100K-2XL	100	10	–	–	24,5	650x500	1160,-	–	–	963-129	105,-
SFB 200K-2XL	200	20	–	–	24,5	650x500	1160,-	–	–	963-129	105,-
with elevated display											
SFB 10K1HIP	10	1	–	–	9	300x240	710,-	–	–	963-128	88,-
SFB 20K2HIP	20	2	–	–	9	300x240	710,-	–	–	963-128	88,-
SFB 50K5HIP	50	5	–	–	9	300x240	710,-	–	–	963-128	88,-
SFB 50K5LHIP	50	5	–	–	14	400x300	740,-	–	–	963-128	88,-
SFB 100K10HIP	100	10	–	–	14	400x300	750,-	–	–	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	400	15	500x400	930,-	965-229	93,-	963-129	105,-
SFB 100K-2LM	150	50	50	1000	15	500x400	830,- 🔻	965-229	93,-	963-129	105,-
SFB 100K-2XLM	150	50	50	1000	24,5	650x500	1170,-	965-229	93,-	963-129	105,-
SFB 300K-1LM	300	100	100	2000	24,5	650x500	1170,-	965-229	93,-	963-129	105,-
with elevated display											
SFB 15K5HIPM	15	5	5	100	9	300x240	720,-	965-228	55,-	963-128	88,-
SFB 30K10HIPM	30	10	10	200	9	300x240	720,-	965-228	55,-	963-128	88,-
SFB 60K20HIPM	60	20	20	400	9	300x240	830,-	965-229	93,-	963-129	105,-
SFB 60K20LHIPM	60	20	20	400	14	400x300	860,-	965-229	93,-	963-129	105,-
SFB 120K50HIPM*	120	50	50	1000	14	400x300	860,-	965-229	93,-	963-129	105,-
SFB 100K-2HM	150	50	50	1000	14	400x300	870,-	965-229	93,-	963-129	105,-

! * **ONLY WHILE STOCKS LAST**   🔻 Price reduction

Platform scale KERN SXS

NEW · **PREMIUM** ★★★

1

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

Features

- **Ideal for robust industrial application**
- ▨ Substruction in wing design, extremely resistant to bending, stainless steel
- ▨ **Scale entirely out of stainless steel** with IP68 protected display device, very high class of protection against dust and water. Ideal for harsh environmental conditions, industrial applications or the food industry, hygienic and easy to clean. Display device with integrated power supply. Wall mount standard. For further details on the KERN KXS-TM display device, see page 136

- ▨ **Load cell stainless steel**, silicone-coated, IP67
- **Superior display size:** digit height 55 mm. Bright backlight for easy reading of weight, 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 and PC or printer is made easier
- **ESD drain to protect against electrostatic discharge** e.g. for electrostatically-charged weighing items or people working with the scale

Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel, WxDxH
  ▨ 300x240x86 mm, ▨ 400x300x89 mm
  ▨ 500x400x135 mm, D 650x500x133.5 mm
- Dimensions of display device WxDxH 232x170x80 mm
- Cable length of display device approx. 2,5 m
- **Rechargeable battery pack internal** standard, operating time up to 80 h without backlight, charging time approx. 12 h

Accessories

- **Data interface RS-232**, must be ordered at purchase, KERN KXS-A04, **€ 40,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 80,-**
- **Bluetooth data interface** for wireless data transfer to PC, must be ordered at purchase, KERN KXS-A02, **€ 100,-**
- **Foot switch**, must be ordered at purchase, details see page 160, KERN KXS-A03, **€ 65,-**
- **Suitable printers** see page 157 ff.

STANDARD | OPTION | FACTORY

| CAL EXT | GLP PRINTER | PCS | TOL | MOVE | IP 67 ³ | IP 68 ² | INOX | ACCU | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | DAkkS +3 DAYS | RS 232 | RS 485 | BT | M +3 DAYS |

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Options			
								Verification		**DAkkS Calibr. Certificate**	
KERN	kg	g	g	g	kg		**€**	M Ⅲ KERN	€	DAkkS KERN	€
SXS 6K-3M	3 | 6	1 | 2	1 | 2	20 | 40	5,1	A	**630,-**	965-228	55,-	963-128	88,-
SXS 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	5,1	A	**640,-**	965-228	55,-	963-128	88,-
SXS 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	11,8	B	**770,-**	965-228	55,-	963-128	88,-
SXS 30K-2M	15 | 30	5 | 10	5 | 10	100 | 200	11,8	B	**740,-**	965-228	55,-	963-128	88,-
SXS 30K-2LM	15 | 30	5 | 10	5 | 10	100 | 200	20,8	C	**1050,-**	965-228	55,-	963-128	88,-
SXS 60K-2M	30 | 60	10 | 20	10 | 20	200 | 400	11,8	B	**750,-**	965-229	93,-	963-129	105,-
SXS 60K-2LM	30 | 60	10 | 20	10 | 20	200 | 400	20,8	C	**1050,-**	965-229	93,-	963-129	105,-
SXS 100K-2M	60 | 150	20 | 50	20 | 50	400 | 1000	20,8	C	**1050,-**	965-229	93,-	963-129	105,-
SXS 100K-2LM	60 | 150	20 | 50	20 | 50	400 | 1000	36,5	D	**1290,-**	965-229	93,-	963-129	105,-
SXS 300K-2M	150 | 300	50 | 100	50 | 100	1000 | 2000	36,5	D	**1290,-**	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 6 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/EC)

▸ 2009

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

▸ 2012

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

▸ 2013

Starting construction of Ziegelei 2.0 with computer-controlled high-bay warehouse

▸ 2014

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

👍 Our Tip

Come to see the Museum of scale and weight …

How a scale learned to weigh! Come and experience KERN history in the Zollernschloss at Balingen …

www.balingen.de
➔ Kultur

KERN – Tradition and Innovation for over 170 years

An independent family business, KERN since already 6 generations is synonymous with quality and reliability in customer service.

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 2009/23/EC
- 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

Order hotline
+49 [0] 7433 9933-0

Service hotline
+49 [0] 7433 9933-199

Calibration hotline
+49 [0] 7433 9933-196

Online-Shop
www.kern-sohn.com

E-mail order
info@kern-sohn.com

Fax Order
+49 [0] 7433 9933-146

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

www.kern-sohn.com
For product specification sheets, user manuals, useful information, technical glossary pictures and much more as well as a smart search engine for test weights and balances

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

Quality Management
DQS
ISO 9001:2008

APPROVAL FOR
MANUFACTURE
OF MEDICAL
PRODUCTS
EN 13485 and
93/42/EEC

AUTHORISATION
FOR INITIAL
VERIFICATION
BY THE
MANUFACTURER
2009/23/EC

German Excellence Group
Member