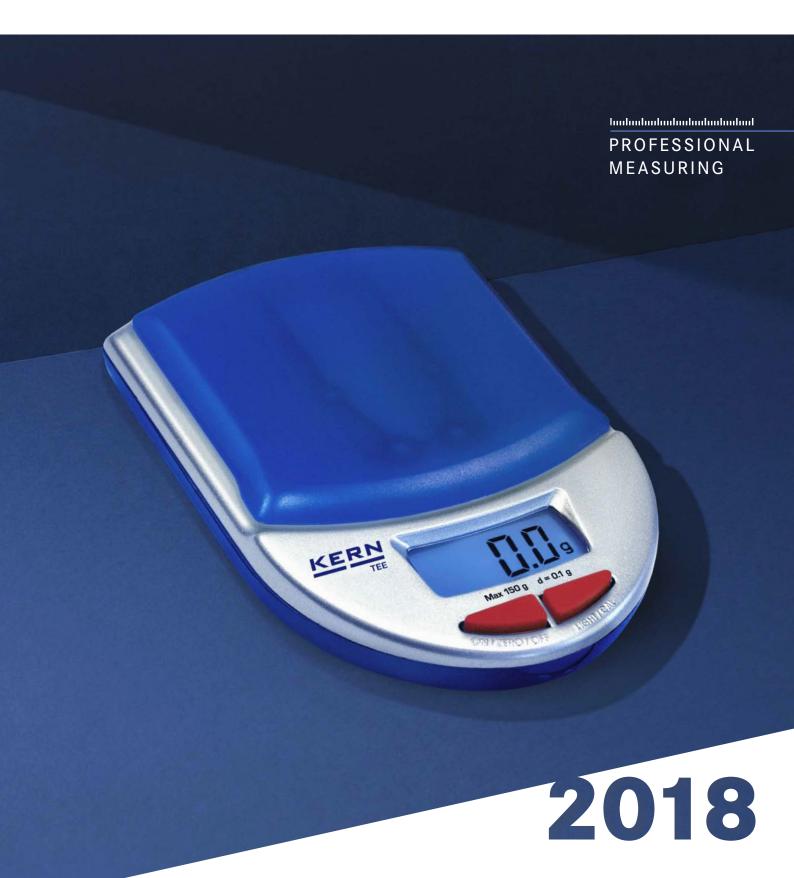


POCKET BALANCES



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 **CAL EXT** 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, USB 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 WLAN 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

DUAL balance



Network interface:

For connecting the scale to an Ethernet LAN 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



The balance displays serial number, INTERN user ID, weight, date and time, regardless of a printer connection

GLP/ISO log: GLP

With weight, date and time. Only with PRINTER KERN printers, see page 154/155



Piece counting:

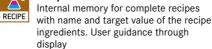
Reference quantities selectable. Display can be switched from piece to weight



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:





RECIPE

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:

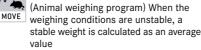
Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details

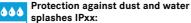


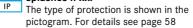
Weighing with tolerance range:

(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:

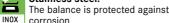






Stainless steel:

*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.





Suspended weighing: Load support with hook on the underside



Battery operation:

of the balance

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 230 V 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



М

DAkkS

1 DAY

2 DAYS

Weighing principle: Single cell technology

The time required for verification is

DAkkS calibration possible (DKD):

The time required for DAkkS calibration

The time required for internal shipping

The time required for internal shipping

preparations is shown in days in the

preparations is shown in days in the

Verification possible:

+3 DAYS is shown in days in the pictogram

Package shipment:

Pallet shipment:

pictogram

pictogram

+3 DAYS specified in the pictogram

Advanced version of the force compensation principle with the highest level of precision

KERN - measuring technology and testing services from a single source



of balances, test weights, and services such as verification, calibration, etc. 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. 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.

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

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- Y
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Service hotline +49[0]74339933-199



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]74339933-146 i

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.



Pocket balances

Pocket size precision

Pocket balances are the ideal helpers whenever mobility and high precision are required. Since they have fewer keys, operation is simple and fast. Different weighing units stored in the pocket balance, such as g, oz, ct, gn, etc., make them universally usable. An integrated calculator allows you to use the measured weight immediately in calculations, to e.g. determine a price, quantity, average value and much more. Compact in size and well protected with a flap or protective cover, which can be used as a convenient taring container, the pocket balance is always a useful tool for mobile weighing.

- In production, to control of production weights or during the picking of small parts
- In quality control for the quick testing of small parts like plastic parts from injection moulding machines, milled parts, screws, etc.
- For mobile weighing, on-site sampling, and fast analysis wherever there's no power outlet
- In hobbies and sports, e.g. when filling black powder, weighing parts from modelling kits etc.
- In commerce, for the fast determination of the weights of coins, jewellery, precious stones, etc.
- In veterinary sector for the weighing of small animals, the mixing of food, etc.
- In the food sector for the preparation of spice or tea mixes, for the weighing of food in line with a diet sheet.

Quick-Finder Pocket balances										
Read- out [d]	Weighing range [Max]	Model	Price excl. of VAT ex works	Page	DAYS	CAL EXT	BATT			
g	g	KERN	€		For an explanation on the pictos, see front flap					
0,001	20	TAB 20-3 🗇	70,-	10	1	•	•			
0,002	10	CM 50-C2N 🗇	90,-	10	1	•	•			
0,01	60	CM 60-2N	79,-	10	1	•	•			
0,1	150	TEE 150-1	38,-	10	1	•	•			
0,1	150	CM 150-1N	52,-	10	1	•	•			
0,1	200	TCB 200-1	52,-	10	1	•	•			
0,1	320	CM 320-1N	55,-	10	1	•	•			
1	1000	CM 1K1N	52,-	10	1	•	•			
		·	· · · ·		Carat bala	ances • = standa	ard O = option			

- Simple and convenient 2-key operation
- Backlit LCD display
- Cover can also be used as a tare cup
- Also ideal as a gift for your customers

Fabienne Kolbus Product specialist Pocket balances

Tel. +49 [0] 7433 9933-305 Fax +49 [0] 7433 9933-29305 fabienne.kolbus@kern-sohn.com





KERN TEE



KERN TEE

02

Designer pocket balance at a bargain price



KERN TCB

This is where the fun starts with pocket format weighing

BATT



KERN CM

Pocket balance with integrated pocket calculator (CM) or with carat display (CM-C) - ideal for jewellers



OPTION DAkks +3 Days

 Hard case cover as protection against pressure and dust

CM:

Integrated calculator

2 CM-C:

- Hard case cover as protection against pressure and dust
- Adjusting weight standard
 Draft shield against air
- movements standard
 Weighing pan
- standard



KERN TAB

High-precision pocket carat balance for jewellers and travelling salesmen





- Simple and convenient 4-key operation
- Can be switched over from g to ct, gn at the touch of a key
- Hard case cover as protection against pressure and dust
- Adjusting weight and dust
- weighing pan standard





 Simple and convenient 2-key operation

- Cover made of shock proof plastic as protection against pressure and dust. Can also be used as a tare cup
- Note: Can be printed with your logo, from 100 pcs on. Please ask for details



STANDARD

- Simple and convenient 2-key operation
- \cdot Small and handy
- Transport box and weighing pan included
- Revolving weighing plate (as overload protection)
- Note: Individal logo printing on request

KERN	TEE 150-1	TCB 200-1	CM 60-2N	CM 150-1N	CM 320-1N	CM 1K1N	CM 50-C2N	TAB 20-3
Weighing range [Max] g	150 g	200 g	60 g	150 g	320 g	1000 g	10 g 50 ct	20 g 100 ct
Readout [d]	0,1 g	0,1 g	0,01 g	0,1 g	0,1 g	1 g	0,002 g 0,01 ct	0,001 g 0,005 ct
LCD display	backlit, digit height 9 mm	Digit height 9 mm	Digit height [12 mm			Digit height 9 mm	backlit, digit height 9 mm	
Dimensions of weighing plate	W×D 60×64 mm	ø 80 mm	W×D 70×80 mm W×D 50×40				W×D 50×40 mm	W×D 36×42 mm
Overall dimensions	W×D×H 67×100×22 mm	ø×H 80×14 mm	W×D×H 85×130×25 mm					W×D×H 95×133×33 mm
Power supply	Batteries included, 2×1,5 V AAA, operating time approx. 50 h	Batteries included, 2×LR 44, AUTO-OFF function to preserve battery life, can be switched off	Batteries included, 2×1,5 V AAA, AUTO-OFF function to preserve battery life, can be switched off Operating time:					Batteries included, 4×1,5 V AAA, operating time approx. 150 h
			ca. 30 h	ca.			a. 30 h	
Net weight	100 g	50 g			00 g			
Permissible ambient temperature	5 °C/35 °C						10 °C/30 °C	
Price €, excl. of VAT, ex works	38,-	52,-	79,-	52,-	55,-	52,-	90,-	70,-
Option DAkkS Calibr. Certificate	963-127, 72,-							

2

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



KERN is founded – precision balances are produced



A proud Gottlieb Kern with his staff



Pharmaceutical balance with Aesculap



Inflation – KERN wages are paid with self printed currency



The electronic balance ousts mechanical devices



Accredited DKD laboratory (ISO 17025)



New premises in Balingen



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



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



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



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



Verification point for non-automatic balances and test weights.

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



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



Inauguration of Ziegelei 2.0 with computercontrolled high-bay warehouse



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

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