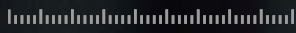


POCKET BALANCES

2017



PROFESSIONAL
MEASURING



KERN Pictograms

	Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).		Piece counting: Reference quantities selectable. Display can be switched from piece to weight.		Rechargeable battery pack: Rechargeable set.
	Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.		Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).		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
	Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.		Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.		Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available.
	Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard. For details see page 199		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.		Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.
	Data interface RS-232: To connect the balance to a printer, PC or network.		Totalising level A: The weights of similar items can be added together and the total can be printed out.		Weighing principle: Strain gauges Electrical resistor on an elastic deforming body.
	RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.		Percentage determination: Determining the deviation in % from the target value (100 %).		Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate.
	USB data interface: To connect the balance to a printer, PC or other peripherals.		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 principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings.
	Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals.		Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning		Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision.
	WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.		Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.		Verification possible: The time required for verification is specified in the pictogram.
	Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.		Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see page 56.		DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram.
	Interface for second balance: For direct connection of a second balance.		ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.		Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
	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		Stainless steel: The balance is protected against corrosion.		Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.
	Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module.		Suspended weighing: Load support with hook on the underside of the balance.		Warranty: The warranty period is shown in the pictogram.
	GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.		Battery operation: Ready for battery operation. The battery type is specified for each device.		
	GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories", see page 163.				



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


 **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.






















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 KERN	Price excl. of VAT ex works €	Page			
0,001 g	20 g	TAB 20-3 	70,-	7	1		
0,002 g	10 g	CM 50-C2N 	90,-	7	1		
0,01 g	60 g	CM 60-2N	79,-	7	1		
0,1 g	150 g	TEE 150-1	38,-	7	1		
0,1 g	150 g	CM 150-1N	52,-	7	1		
0,1 g	200 g	TCB 200-1	52,-	7	1		
0,1 g	320 g	CM 320-1N	55,-	7	1		
1 g	1000 g	CM 1K1N	52,-	7	1		

 = Carat balances

 = standard

 = option

Your product specialist's recommendation:

-  **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**



Katharina Wilhelm
Product specialist Pocket balances

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katharina.wilhelm@kern-sohn.com

HIGH-LIGHT



only €
38,-

► page 7

KERN TEE



KERN TEE

Designer pocket balance at a bargain price

KERN TCB

This is where the fun starts with pocket format weighing

1 KERN CM

Small, practical and protected in a hard case cover

KERN TAB

High-precision pocket carat balance for jewellers and travelling salesmen

STANDARD

CAL EXT UNIT BATT 1 DAY 2 YEARS WARRANTY

STANDARD

CAL EXT UNIT BATT 1 DAY 2 YEARS WARRANTY

STANDARD

CAL EXT UNIT BATT 1 DAY 2 YEARS WARRANTY

STANDARD

CAL EXT UNIT BATT 1 DAY 2 YEARS WARRANTY

OPTION

DAkKS +3 DAYS

OPTION

DAkKS +3 DAYS

OPTION

DAkKS +3 DAYS

OPTION

DAkKS +3 DAYS

- 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

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

- Hard case cover as protection against pressure and dust

- 1 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

- 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 weighing pan standard

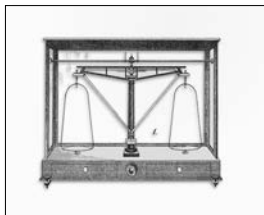


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KERN	TEE 150-1	TCB 200-1	CM 60-2N	CM 150-1N	CM 320-1N	CM 1K1N	CM 50-C2N	TAB 20-3
Weighing range [Max] g	150 g	200 g	60 g	150 g	320 g	1000 g	10 g 50 ct	20 g 100 ct
Readout [d] [d]	0,1 g	0,1 g	0,01 g	0,1 g	0,1 g	1 g	0,002 g 0,01 ct	0,001 g 0,005 ct
LCD 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 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	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			Batteries included, 4 × 1,5 V AAA operating time approx. 150 h		
Net weight	100 g	50 g	ca. 30 h	ca. 70 h	ca. 30 h	200 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,-							

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

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Balances, Test weights, DAkkS Calibration laboratory
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