

Pocket carat balances KERN CM-C · TAB · TGD



## KERN CM-C

Pocket balance with carat display – ideal for jewellers



## KERN TAB

High-precision pocket carat balance for jewellers and travelling salesmen



## KERN TGD

Compact pocket carat balance for precision weighing of jewellery and precious stones



- **Hard case cover** as protection against pressure and dust
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- **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**
- **Powder scale with Grain division (gn)**, ideal for sport shooters, reloaders etc. for self-filling cartridge cases

- **Simple and convenient 4-key operation**
- **Can be switched over from g to ct, gn, dwt, ozt, oz at the touch of a key**
- **Innovative touchscreen:** Large touch-sensitive, backlit touch display with very good contrast for easy operation and convenient reading
- **Hard case cover** as protection against pressure and dust
- **Stainless steel weighing plate**, which makes cleaning easy and hygienic
- **Weighing pan standard**
- **Powder scale with Grain division (gn)**, ideal for sport shooters, reloaders etc. for self-filling cartridge cases
- USB cable for power supply as standard
- **1** Delivered in appealing packaging
- **Note:** The models are only delivered in a set of 5 units. i.e. the prices given in the table refer to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

**Tip:** KERN pocket scales are also ideal as a customer gift or for personalized marketing and sales campaigns. We are happy to print your logo on the cover, the lid or the packaging, from 100 pieces. Please inquire details

KERN	CM 50-C2N	TAB 20-3	TGD 50-3CS05
Weighing capacity [Max] g	10 g   50 ct	20 g   100 ct	50 g   250 ct
Readability [d] [d]	0,002 g   0,01 ct	0,001 g   0,005 ct	0,001 g   0,005 ct
LCD display	digit height 9 mm	backlit, digit height 9 mm	backlit, digit height 12 mm
Dimensions of weighing plate	W×D 50×40 mm	W×D 36×42 mm	ø 65 mm
Overall dimensions	W×D×H 85×130×25 mm	W×D×H 95×133×33 mm	W×D×H 96×149×36 mm
Power supply	Batteries included, 2×1,5 V AAA, AUTO-OFF function to preserve battery life, can be switched off, operating time up to 30 h	Batteries included, 4×1,5 V AAA, operating time up to 150 h without backlight	
Net weight	200 g		
Permissible ambient temperature	5 °C/35 °C	10 °C/30 °C	5 °C/35 °C
Option DAkkS Calibr. Certificate	963-127		

## Pictograms

	<b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)		<b>KERN Communication Protocol (KCP):</b> 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		<b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.
	<b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required				<b>Stainless steel:</b> The balance is protected against corrosion
	<b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC, tablet or smartphone		<b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection		<b>Suspended weighing:</b> Load support with hook on the underside of the balance
	<b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.		<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers		<b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
	<b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.				<b>Rechargeable battery pack:</b> Rechargeable set
	<b>Data interface RS-232:</b> To connect the balance to a printer, PC or network		<b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight		<b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS
	<b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible		<b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out		<b>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
	<b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals		<b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display		<b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
	<b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals		<b>Recipe level C:</b> 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		<b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
	<b>WLAN data interface:</b> To transfer data from the balance to a printer, PC or other peripherals				<b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
	<b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.		<b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out		<b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
	<b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements		<b>Percentage determination:</b> Determining the deviation in % from the target value (100 %)		<b>Weighing principle: Single cell technology:</b> Advanced version of the force compensation principle with the highest level of precision
	<b>Interface for second balance:</b> For direct connection of a second balance		<b>Weighing units:</b> 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		<b>Verification possible:</b> The time required for verification is specified in the pictogram
	<b>Network interface:</b> For connecting the scale to an Ethernet network		<b>Weighing with tolerance range:</b> (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		<b>DAKkS calibration possible:</b> The time required for DAKkS calibration is shown in days in the pictogram
	<b>Wireless data transfer:</b> between the weighing unit and the evaluation unit using an integrated radio module		<b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value		<b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram
					<b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram

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## KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAKkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAKkS calibration laboratory today is one of the most modern and best-equipped DAKkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAKkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

### Range of services:

- DAKkS calibration of balances with a maximum load of up to 50 t
- DAKkS calibration of weights in the range of 1 mg - 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

## Your KERN specialist dealer: