

GB

**KERN**<sup>®</sup>

# Pocket balances



# 2022



PROFESSIONAL MEASURING

# KERN Pictograms

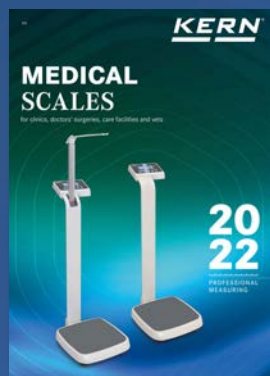
 <p><b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)</p>	 <p><b>KERN Communication Protocol (KCP):</b> It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems</p>	 <p><b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device</p>
 <p><b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required</p>	 <p><b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection</p>	 <p><b>Rechargeable battery pack:</b> Rechargeable set</p>
 <p><b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC or tablet. For details see page 123</p>	 <p><b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers, see page 163–165</p>	 <p><b>Universal plug-in power supply:</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</p>
 <p><b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.</p>	 <p><b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight</p>	 <p><b>Plug-in power supply:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available</p>
 <p><b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 215</p>	 <p><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</p>	 <p><b>Integrated power supply unit:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request</p>
 <p><b>Data interface RS-232:</b> To connect the balance to a printer, PC or network</p>	 <p><b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display</p>	 <p><b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body</p>
 <p><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</p>	 <p><b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out</p>	 <p><b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate</p>
 <p><b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals</p>	 <p><b>Percentage determination:</b> Determining the deviation in % from the target value (100 %)</p>	 <p><b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings</p>
 <p><b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals</p>	 <p><b>Weighing units:</b> Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details</p>	 <p><b>Weighing principle: Single cell technology:</b> Advanced version of the force compensation principle with the highest level of precision</p>
 <p><b>WiFi data interface:</b> To transfer data from the balance to a printer, PC or other peripherals</p>	 <p><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</p>	 <p><b>Verification possible:</b> The time required for verification is specified in the pictogram</p>
 <p><b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.</p>	 <p><b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value</p>	 <p><b>DAKkS calibration possible (DKD):</b> The time required for DAKkS calibration is shown in days in the pictogram</p>
 <p><b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements</p>	 <p><b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram. For details see page 53</p>	 <p><b>Factory calibration (ISO):</b> The time required for Factory calibration is shown in days in the pictogram</p>
 <p><b>Interface for second balance:</b> For direct connection of a second balance</p>	 <p><b>Suspended weighing:</b> Load support with hook on the underside of the balance</p>	 <p><b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram</p>
 <p><b>Network interface:</b> For connecting the scale to an Ethernet network</p>	 <p><b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram</p>	 <p><b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram</p>

# 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, 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 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 175 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/EWG

### versatile

- One-stop shopping: from pocket balances through to 12 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](http://www.kern-sohn.com)



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



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**[www.kern-sohn.com](http://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.

# KERN TGC Page 9

- > High-resolution pocket balance
- > Fast response and settling time
- > Particularly flat design
- > Stainless steel weighing plate



only €  
**19,80\***

\* Price/unit, excl. of VAT ex works, only available in a set of 5 units

## 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

Readability [d]	Weighing capacity [Max]	Model	Price excl. of VAT ex works	Page			
g	g	KERN	€				
0,001	50	TGD 50-3CS05	260,-*	10	1	●	●
0,002	10	CM 50-C2N	95,-	10	1	●	●
0,01	60	CM 60-2N	85,-	9	1	●	●
0,01	150	TGC 150-2S05	99,-*	9	1	●	●
0,1	150	TEE 150-1	45,-	9	1	●	●
0,1	150	CM 150-1N	55,-	9	1	●	●
0,1	320	CM 320-1N	58,-	9	1	●	●
0,1	500	TGC 500-1S05	99,-*	9	1	●	●
1	1000	CM 1K1N	55,-	9	1	●	●
1	1000	TGC 1K-3S05	99,-*	9	1	●	●

For an explanation on the pictos, see front flap

\*Price set of 5 units

= Carat balances

● = standard

○ = option

# 01



**KERN TEE**

Designer pocket balance at a bargain price

**KERN CM**

Pocket balance with integrated pocket calculator

**KERN TGC**

Slim pocket balance with large stainless steel weighing plate and practical tare pan

STANDARD

CAL EXT BATT 1 DAY

STANDARD

CAL EXT UNIT BATT 1 DAY

STANDARD

CAL EXT UNIT BATT 1 DAY

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

- Simple and convenient 4-key operation
- Hard case cover as protection against pressure and dust
- Robust, handy, well protected
- Integrated calculator

- High-resolution pocket balance with particularly rapid reaction and stabilisation time, which means that you can work extremely efficiently
- Particularly flat design
- Cover made of shock proof plastic as protection against pressure and dust. Can also be used as a tare cup
- Stainless steel weighing plate, which makes cleaning easy and hygienic
- **Note:** The models are only delivered in a set of 5 units. That means the prices given in the table refer to a delivery of 5 units. 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 personalised marketing and sales campaigns. We are happy to print your logo on the cover, the lid or the packaging, up from 100 pieces. Please inquire details

KERN	TEE 150-1*	CM 60-2N	CM 150-1N	CM 320-1N	CM 1K1N	TGC 150-2S05	TGC 500-1S05	TGC 1K-3S05
<b>Weighing capacity [Max] g</b>	150 g	60 g	150 g	320 g	1000 g	150 g	500 g	1000 g
<b>Readability [d]</b>	0,1 g	0,01 g	0,1 g	0,1 g	1 g	0,01 g	0,1 g	1 g
<b>LCD display</b>	backlit, digit height 9 mm	backlit, digit height 12 mm			backlit, digit height 12 mm			
<b>Dimensions of weighing plate</b>	W×D 60×64 mm	W×D 70×80 mm			ø 81 mm			
<b>Overall dimensions</b>	W×D×H 67×100×22 mm	W×D×H 85×130×25 mm			W×D×H 100×130×18 mm			
<b>Power supply</b>	Batteries included, 2× 1,5 V AAA, operating time up to 50 h	Batteries included, 2× 1,5 V AAA, AUTO-OFF function to preserve battery life, operating time up to 33 h			Batteries included, 2× CR2032, operating time up to 33 h			
<b>Net weight</b>	100 g	180 g			200 g			
<b>Permissible ambient temperature</b>	5 °C/35 °C					0 °C/40 °C		
<b>Price €, excl. of VAT, ex works</b>	45,-	85,-	55,-	58,-	55,-	99,-**	99,-**	99,-**
<b>Option DAkkS Calibr. Certificate</b>	963-127, 82,-							

\* ONLY WHILE STOCKS LAST!

\*\* Price set of 5 units excl. of VAT exworks



**KERN CM-C**

Pocket balance with carat display – ideal for jewellers



**KERN TGD**

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



STANDARD

- CAL EXT
- UNIT
- BATT
- 1 DAY

STANDARD

- CAL EXT
- UNIT
- BATT
- 1 DAY

OPTION

- DAKkS
- +3 DAYS

OPTION

- DAKkS
- +3 DAYS

- 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, 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
- Delivered in appealing packaging
- **Note:** The models are only delivered in a set of 5 units. That means the prices given in the table refer to a delivery of 5 units. 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 personalised marketing and sales campaigns. We are happy to print your logo on the cover, the lid or the packaging, up from 100 pieces. Please inquire details

KERN	CM 50-C2N*	TGD 50-3CS05
<b>Weighing capacity [Max] g</b>	10 g   50 ct	50 g   250 ct
<b>Readability [d]</b>	0,002 g   0,01 ct	0,001 g   0,005 ct
<b>LCD display</b>	digit height 9 mm	backlit, digit height 12 mm
<b>Dimensions of weighing plate</b>	W×D 50×40 mm	ø 65 mm
<b>Overall dimensions</b>	W×D×H 85×130×25 mm	W×D×H 96×149×36 mm
<b>Power supply</b>	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
<b>Net weight</b>	200 g	
<b>Permissible ambient temperature</b>	5 °C/35 °C	5 °C/35 °C
<b>Price €, excl. of VAT, ex works</b>	<b>95,-</b>	<b>260,-**</b>
<b>Option DAkkS Calibr. Certificate</b>	963-127, 82,-	

\* ONLY WHILE STOCKS LAST!

\*\*Price set of 5 units excl. of VAT exworks

# KERN & SOHN – The wide range of product champion that is situated in the Swabian Alb

KERN & SOHN GmbH  
Balances, Test weights, Microscopes,  
DAkkS calibration laboratory  
Ziegelei 1  
72336 Balingen  
Germany  
Tel. +49 7433 9933-0  
info@kern-sohn.com



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