



KERN & Sohn GmbH

Ziegelei 1

D-72336 Balingen

E-Mail: info@kern-sohn.com

Tel.: +49-[0]7433- 9933-0

Fax: +49-[0]7433-9933-149

internet: www.kern-sohn.com

Operating manual

Electronic Carat Pocket Scales

KERN TGD

Version 1.0
2018-06
GB



TGD-BA-e-1810



KERN TGD

Version 1.0 2018-06

Operating manual

Electronic Carat Pocket Scales

1. Technical data

KERN	TGD 50-3C
Item no./ Type	TTGD 50-3C-A
Readability (d)	0.001 g / 0.005 ct
Weighing range (max)	50 g / 250 ct
Adjustment weight, not added (class)	50 g (F2)
Operating temperature	+ 10° C ... + 30° C
Humidity of air	max 80% air humidity (non-condensing)
Automatic cut-off	after 300 seconds
Batteries	4 x 1.5 V AAA (Running time rating 150 hrs)

2. Scope of delivery

• Pocket scale	• Weighing pan	• Power cable
• Balance cover	• Batteries (4 x 1.5 V AAA)	• Operating manual

3. Keyboard overview

ON/OFF	Switch on/off
MODE	Switch-over weighing unit
TARE	Taring / Setting to zero
PCS	Parts counting

4. Operation

Weighing:

- ⇒ Place the balance on a firm, level surface. Level balance with foot screws until the air bubble of the water balance is in the prescribed circle. Check levelling regularly  
- ⇒ To switch on, press **ON/OFF** button, the balance completes a self check. As soon as the weight display appears, the balance is ready for weighing. If required, set to zero by using **TARE** button.
- ⇒ Place load on pan and read the weighing result.
- ⇒ Use the **MODE** button to switch over into the available weighing settings.

[g]  [oz]  [ozt]  [dwt]  [ct]  [gn]

Taring:

- ⇒ Place the empty weighing container.
- ⇒ Press the **TARE** button, the zero display disappears.
- ⇒ Weigh the material, the net weight will be indicated.
- ⇒ When the balance is unloaded the saved taring value is displayed with negative sign.
- ⇒ To delete the stored tare value, remove load from weighing pan and press the **TARE** button.

Parts counting:

- ⇒ In weighing mode press **PCS** button, the balance changes into the counting mode.
- ⇒ Place the reference
- ⇒ Keep the **PCS** button been pressed, the currently set reference quantity is displayed.
- ⇒ Use the **MODE** button to set the quantity of the placed reference (selectable 25, 50, 75, 100) and acknowledge with **PCS** button.
- ⇒ Remove reference.
- ⇒ If necessary, tare the empty balance container.
- ⇒ Place counted pieces on pan and read the quantity of pieces.
- ⇒ Use **MODE** button to return to the weighing mode.

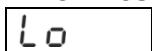
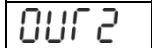
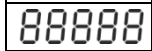
5. Adjustment

- ⇒ Arrange adjustment weight (see chap. 1).
Info about adjustment weights can be found on the Internet at: <http://www.kern-sohn.com>
- ⇒ Ensure that there are no objects on the weighing pan.
- ⇒ In weighing mode keep the **MODE** button pressed until **<CAL>** appears.
- ⇒ Press the **MODE** button again and wait until the weight value of the required adjustment weight will appear flashing.
- ⇒ Place adjustment weight. Wait until **<PASS>**, followed by the weight value of the placed adjustment weight will be displayed. After that the adjustment will be finished successfully.
- ⇒ In case of a diverging display the adjustment has failed. Repeat adjustment process.

6. Important Notes

- Do not overload balance.
- The occurrence of electromagnetic fields may result in major display deviations. Then change location.
- Avoid high air humidity, vapours and dust.
- Do not bring the balance directly in contact with liquids.
- Do not leave permanent load on the weighing pan.
- Never operate balance in explosive environment. The serial version is not explosion protected.
- Check the balance regularly with external test weights.
- **Warranty claims will be voided when the housing is opened.**

7. Error messages

	Capacity of batteries exhausted, change batteries
	Adjustment required, see chap. 5
	The placed weight exceeds the capacity of the balance. Reduce load.
	Place the balance on a firm, level surface and level it.

8. Declaration of conformity

The current EC/EU Conformity declaration can be found online in:

www.kern-sohn.com/ce