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# Operating manual Precision balance

## KERN EHA

Version 1.1  
2020-06  
GB



EHA-BA-e-2011



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Version 1.1 2020-06

**Operating manual**  
**Precision balance**

## 1. Technical data

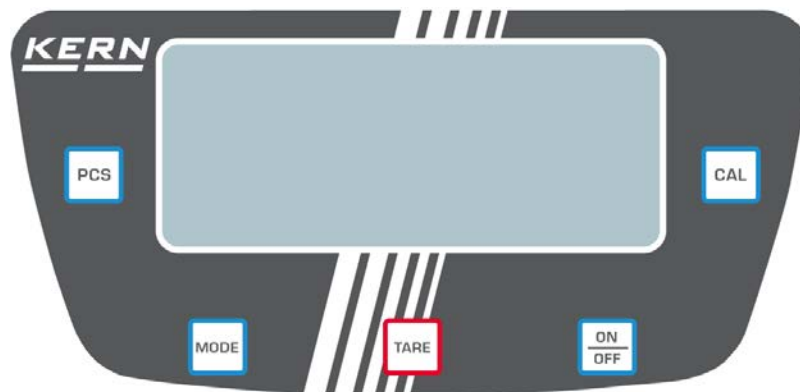
KERN	EHA 500-2	EHA 500-1	EHA 1000-1
Item no./ Type	TEHA 500-2-A	TEHA 500-1-A	TEHA 1000-1-A
Readability (d)	0.01 g	0.1 g	0.1 g
Weighing range (max)	500 g	500 g	1000 g
Adjustment weight, not added (class)	200 g (F2); 500 g (F2)	200 g (M1); 500 g (M1)	500 g (M1); 1 kg (M1)
Weighing surface (mm)	Ø 105		
Operating temperature	+ 5° C .... + 40° C		
Humidity of air	max 80% air humidity (non-condensing)		
Batteries	2 x 1.5 V AA (Runtime rating 400 hrs)		






KERN	EHA 3000-1	EHA 3000-0
Item no./ Type	TEHA 3000-1-A	TEHA 3000-0-A
Readability (d)	0.1 g	1 g
Weighing range (max)	3000 g	3000 g
Adjustment weight, not added (class)	1 kg (F2); 3 kg (F2)	1 kg (M1); 3 kg (M1)
Weighing surface (mm)	120 x 120 (square)	
Operating temperature	+ 5° C .... + 40° C	
Humidity of air	max 80% air humidity (non-condensing)	
Batteries	2 x 1.5 V AA (Runtime rating 400 hrs)	

## 2. Scope of delivery

- Pocket scale
- 4 Adjustment feet
- Mains adapter
- Operating manual

### 3. Keyboard overview



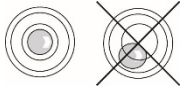
	Switch on/off
	Switch-over weighing unit
	Taring / Setting to zero
	Parts counting
	Adjustment

### 4. 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 **CAL** button pressed, the maximum weight of the balance is displayed.
- ⇒ Press **CAL** button again, CAL will be shortly displayed, after that a weight value will appear flashing. Place a weight of this size. The weight value of the adjustment weight appears flashing. Remove weight.
- ⇒ 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. The balance is now in weighing mode.
- ⇒ In case of a diverging display the adjustment has failed. Repeat adjustment process.

## 5. 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 the **ON/OFF** button, the maximum weight of the balance will be displayed for a short time. After that the weight display appears, the balance is now 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.

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### 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 the **PCS** button for 2 seconds, the balance changes into counting mode, 25 PCS will be displayed.
- ⇒ Press the **MODE** button to select the desired reference number of pieces (selectable options include 25, 50, 75, 100)
- ⇒ While PCS is flashing, place a reference which corresponds to the selected number of pieces
- ⇒ Press PCS again
- ⇒ 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.

## 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 reports

Error message	Description	Corrective measures
Err	Load cell defective	Replace load cell
	Operating error	Replace battery and readjust the balance
O.Ld	Load cell defective	Replace load cell
	Overload	Weighing only within the maximum load
	Adjustment with wrong adjustment weight	Adjustment with correct adjustment weight
UnSt	Load cell defective	Replace load cell
	Balance not correctly levelled	Place the balance on a level, even surface and level it using the four adjustment feet in a way that the air bubble of the spirit level is inside the circle
	The balance is in an environment with strong air draught or electromagnetic fields	Improve the environmental conditions
Lo	Capacity of battery exhausted	Insert new battery

## 8. Declaration of conformity

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

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