

FOR MEASURABLE SUCCESS

**SOEHNLE**  
PROFESSIONAL

# COUNTING SCALE 9222

OPERATING MANUAL

Trade, Commerce and Industry



[www.soehnle-professional.com](http://www.soehnle-professional.com)

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# 1. GENERAL INFORMATION



## ■ Application

The Soehnle Professional Counting Scale 9222 is designed for weighing goods and calculating unit totals.

## ■ Safety Notices

Read the operator manual carefully before using the equipment for the first time. It contains important information on the installation, correct use and maintenance of the equipment.

**The manufacturer shall not be held liable if the following notices are not complied with:** Observe

the regulations in place when using electrical components with important safety requirements. Never carry out work on energised scales. Improper installation will invalidate the warranty. The electrical connections must comply with the ratings printed on the power supply unit.

The equipment is designed for use in buildings. Note the permissible operating ambient temperatures (specifications).

The equipment complies with electromagnetic compatibility requirements. Avoid exceeding the maximum values specified in the standards. If you have any problems, contact your Soehnle Professional service partner.

## ■ Cleaning

All you need to clean the equipment is a damp cloth and a commercial cleaning agent. Do not use scouring agents.

## ■ Maintenance and Service

The scales do not require regular maintenance. However, it is worth checking their accuracy at regular intervals. The frequency will depend on the application and condition of the scales.

## ■ Note

In accordance with European directive 89/336/EEC this device is fitted with noise suppression. However, the display reading can be affected by extreme electrostatic or electromagnetic interference, e.g. using a radio or mobile phone in the immediate vicinity of the equipment. At the end of the interference the product can be used again for its purpose, however it may need to be switched on again. In the event of permanent electrostatic interference we recommend earthing the platform. This device is a measuring instrument. Drafts, vibrations, rapid changes in temperature and solar irradiation can affect the scale reading. The scales comply with safety rating IP 54. High air humidity, steam, aggressive fluids and contamination must be avoided.

### ■ Warranty/Liability

If the supplied goods contains a defect attributable to Soehnle Professional, Soehnle Professional shall be entitled to rectify the defect or provide a replacement. Replaced parts shall become the property of Soehnle Professional. Should the rectification or replacement not prove unsatisfactory, statutory provisions shall apply. The warranty period is for 2 years and starts on the day of purchase. Please keep your invoice as a receipt. For service please contact your dealer or the Soehnle Professional customer service department.

#### **No liability shall be accepted in particular for damage arising from the following situations:**

Unsuitable, improper storage or use, faulty assembly / commissioning by the buyer or third parties, natural wear, modification or tampering, faulty or negligent handling, in particular overuse, chemical, electro-chemical, electrical interference or humidity, insofar as these are not attributable to Soehnle Professional.

Should operational, climatic or other effects result in a significant change to the operating conditions or the condition of the material, the warranty for the overall operation of the equipment shall become invalid. Where Soehnle Professional provides a warranty in individual cases, this implies freedom from defects to the goods for the duration of the warranty period.

Keep the original packaging in case it is required for returning the goods.

### ■ Specifications

Weighing range:	6 kg / 15 kg / 50 kg
Numeral script:	0,2 g / 0,5 g / 1 g
Accuracy:	1/30.000 / 1/30.000 / 1/50.000
Operating temperature:	0° - 40°C
Power supply:	9V / 500 mA, AC-Adapter; 6V-Akkus eingebaut
Interface:	RS-232

### ■ Disposal



Faulty batteries must be disposed of in accordance with national and local environmental regulations and raw materials must be recycled.

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## 2. USING THE SCALES FOR THE FIRST TIME

### ■ Supplied Contents

- Scales
- Platform
- Wall power supply

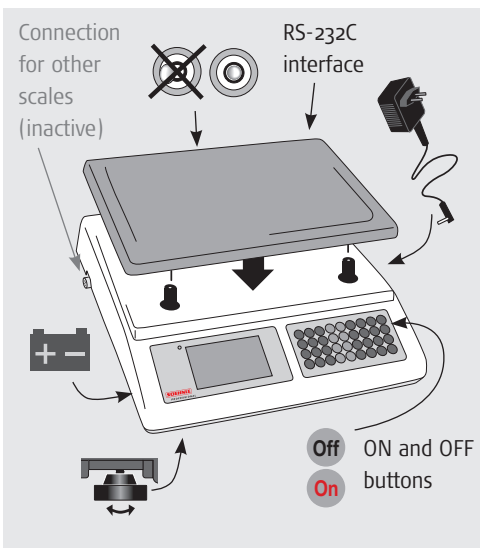
### ■ Assembling the Scales

1. Remove the cover from the platform and place the platform on the scales.
2. Assemble the scales at the application point.
3. Use the adjustable legs and the spirit level to ensure the scales are mounted horizontally.
4. Attach the wall power supply. The installed battery charges up (LED lit).
5. The scales are ready for operation.

### ■ Switching on/off

Switch the scales on using the **On** button, and off using the **Off** button (see illustration). Do not load the scales at this point.

**Attention:** Carefully place the items to be weighed on the scales. Do not permanently load the platform. Avoid impacts or overloading beyond the specified maximum load as this could damage the scales.

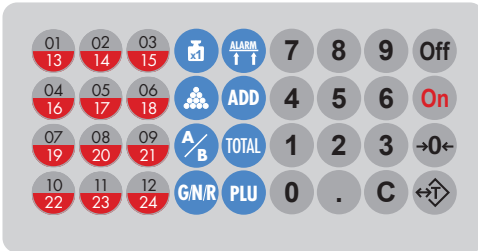


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## 3. INPUT AND CONTROL


### Control Keys





01 — 12  
13 — 24 PLU shortcut keys (to call up stored unit weights directly)


0 — 9 To input numerical values


 Input the reference weight (unit weight)


 Input the reference amount (unit total)


 Toggle key between 2 scales (inactive)


 Change the display between gross, net and tare weights


 Limit setting (max./min total weight/unit total)

 Adding values

 Sum total key (show overall unit totals and weights after adding)

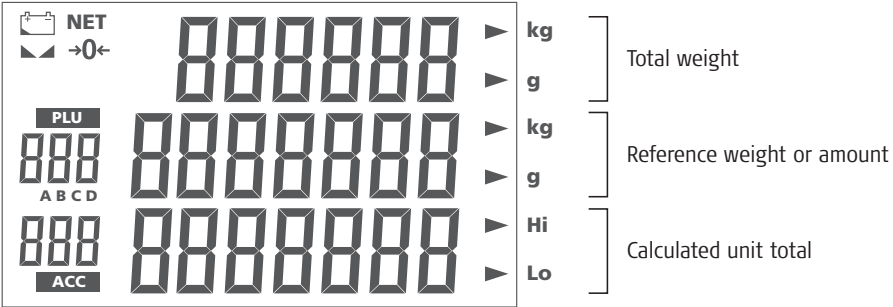
 PLU shortcut keys for saving, loading or modifying saved unit weights ("Product Look Up")

 Reset display to zero / delete input

 Zero setting key

 Tare

## ■ Display



## ■ Display Symbols


 Charge battery

**NET** Net weight

 Idle

**→0←** Zero report

 PLU memory

 Sum total memory

▶ **kg** Display in kilograms

▶ **g** Display in grams

▶ **Hi** Load above upper target weight

▶ **Lo** Load below lower target weight

### 4. WEIGHING AND COUNTING

#### Zero setting



If after powering up the scales there is no load on the scales but the display is not zero, press **→0←**. Possible zero setting range -2%...+2% of the weighing range. The display shows **→0←**.

#### Calculating / Deducting the Tare Weight



**Weighing with the tare weight calculated**

- Place the container on the platform.
- Press **↔T↔**.

The display goes to zero.

The display shows **NET**.



**Weighing with the tare weight manually entered**

- Enter the known tare weight in grams.
- Press **↔T↔** until the value in the display flashes.
- Place the container on the platform.
- Place the items to be weighed on the scales.

The net weight is displayed when the scales come to rest. The display shows **NET**.

#### Deleting the Tare Weight

When the scales are unladen press **↔T↔**.

#### Counting



**Counting with an unknown unit weight (method 1)**

- Place the counted reference unit total on the platform.
- Enter the unit total and press **▲** within 4 seconds to calculate the unit weight, otherwise the input will be deleted automatically.

Other amounts placed on the scales will now also be counted.



**Counting with an unknown unit weight (method 2)**

- When the scales are unladen press **▲**. "SAMPLE" appears in the second line of the display and "100" in the third line.
- Enter the unit total.
- Place the counted reference unit total on the platform.
- Wait briefly until the scales have calculated the unit weight.

Other amounts placed on the scales will now also be counted.



**Counting with an unknown unit weight (method 3)**

- Place the counted reference unit total on the platform.
- Press **▲**. "SAMPLE" appears in the second line of the display and "100" in the third line.
- Enter the unit total.



- Remove the reference pieces from the platform and wait briefly until the scales have calculated the unit weight.

Other amounts placed on the scales will now also be counted.


### Compensating fluctuating weights

Place other reference pieces on the scales. Press

 to calculate the exact unit weight.



#### Counting with a known unit weight

- Enter the known unit weight in grams.
- Press  within 4 seconds, otherwise the input will be deleted automatically.

Other amounts placed on the scales will now also be counted.


### Setting Target Weights / Quantities



A top and bottom limit can be set for weight or counted readings.

- Press .

"PCS. Hi" is displayed.

- Enter the maximum unit total.
- Press .


"PCS. Lo" is displayed.

- Enter the minimum unit total.
- Press .

"LoAd. Hi" is displayed.

- Enter upper target weight.
- Press .

"LoAd. Lo" is displayed.

- Enter lower target weight.
- Press .



If the limits are exceeded a signal sounds and the warning arrow flashes on ► **Hi** or ► **Lo**.

### Removing the limits

Select the target levels and delete with .

### Sum Total



- Calculate the unit weight as described in "Counting".
- Place the goods on the scales and wait until ►◄ appears.
- Press  and empty the scales.
- Place more goods on the scales and wait until ►◄ appears.
- Press  again and empty the scales...



The number of added readings is shown on the left. Up to 180 readings can be stored.

### Attention

- Changing the PLU deletes the sum total memory.
- The same unit totals cannot be added one after another as the scales will assume that the platform has not been cleared beforehand. A warning sounds.

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### Displaying the sum total

- Press **TOTAL**.

### Deleting the sum total in the memory

- Press **C**.

## ■ Saving PLU (Product Look Up)

PLUs are used to store information on parts that are used regularly, so that the data can be retrieved quickly from the memory. The PLU number contains data on the tare weight, name and unit weight. Depending on the model, the scales can store up to 1000 PLUs.

### Saving under the PLU shortcut keys <sup>01</sup>13 — <sup>12</sup>24



- Calculate the unit weight as described in "Counting".
- Press **PLU**.
- Press the required PLU shortcut key, e.g. <sup>01</sup>13.

**PLU**  
0 13

For the lower value press the PLU shortcut key again.

- Press **PLU**.

PLU is programmed.

### Saving under the numerical keys 0-999



- Calculate the unit weight as described in "Counting".
- Press **PLU**.
- Enter the required numerical value for the PLU number.

**PLU**  
0 13

- Press **PLU**.

PLU is programmed.

## ■ Selecting PLUs

### Selecting PLUs stored under

#### the PLU shortcut keys <sup>01</sup>13 — <sup>12</sup>24

- Press the required PLU shortcut key. For the lower limit press the key again. PLU is activated.

### Selecting the PLUs stored under 0-199

- Press **PLU** until you hear the audible signal.
- Enter the PLU number.
- Press **PLU**.

PLU is activated.

**Note:** The PLU numbers of the shortcut keys and the numerical keys are shown identically on the right. Note the displayed unit weight (e.g. a different value may be stored under PLU-013 via the PLU shortcut keys and the numerical keys).

### Editing PLUs

- Call up the PLU to be changed.
- Press **PLU**. The unit weight will flash.
- Enter a new unit weight.
- Press **PLU**.

The new PLU is stored.

## ■ Programming the PLUs with Tare Weight

- Place the tare weight on the scales.
- Press **↔**.

Continue as described in "Saving PLU (Product Look Up)".


## ■ Programming the Tare Weight as Standard

- Place the tare weight on the scales before switching them on.
- Switch on the scales.



Continue as described in "Saving PLU (Product Look Up)".

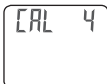


## ■ Error Messages

**Err. OL** Max. weighing range exceeded  
> Take the items off the scales




 **Piep** Zero setting not possible  
> Deviation from zero point too high

## ■ User Calibration


- Press  and switch on the scales with the  key.

-  Select using  "CAL 4" and confirm using .


- **Selecting the maximum weight**

 Select the maximum weight in kg (2nd row) using  and confirm with .


- **Zero point calibration**


 < A/D reading  
< reading 0 (grams)  
< "Pnt 0"


Make sure that the scales are empty.

Wait until the A/D reading (1st row) is stable, then press  to continue.


- **Setting the calibration weight**

 < A/D reading  
< calibration weight 0 (grams)  
< "Pnt. CAL"

Place the calibration weight (min. 1/3 of the weighing range) on the platform. Enter the weight in grams via the keypad. Wait until the A/D reading is stable, then press .

 The calibration was successful.

## Error Message "Err. Ad"

 > Calibration weight too low  
> Deviation from calibration weight too high

Use a calibration weight with at least 1/3 of the weighing range. You should calibrate in the range in which you need to achieve the highest degree of accuracy.

- The power-up initialisation starts when the scales are discharged.

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COUNTING SCALE 9222

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