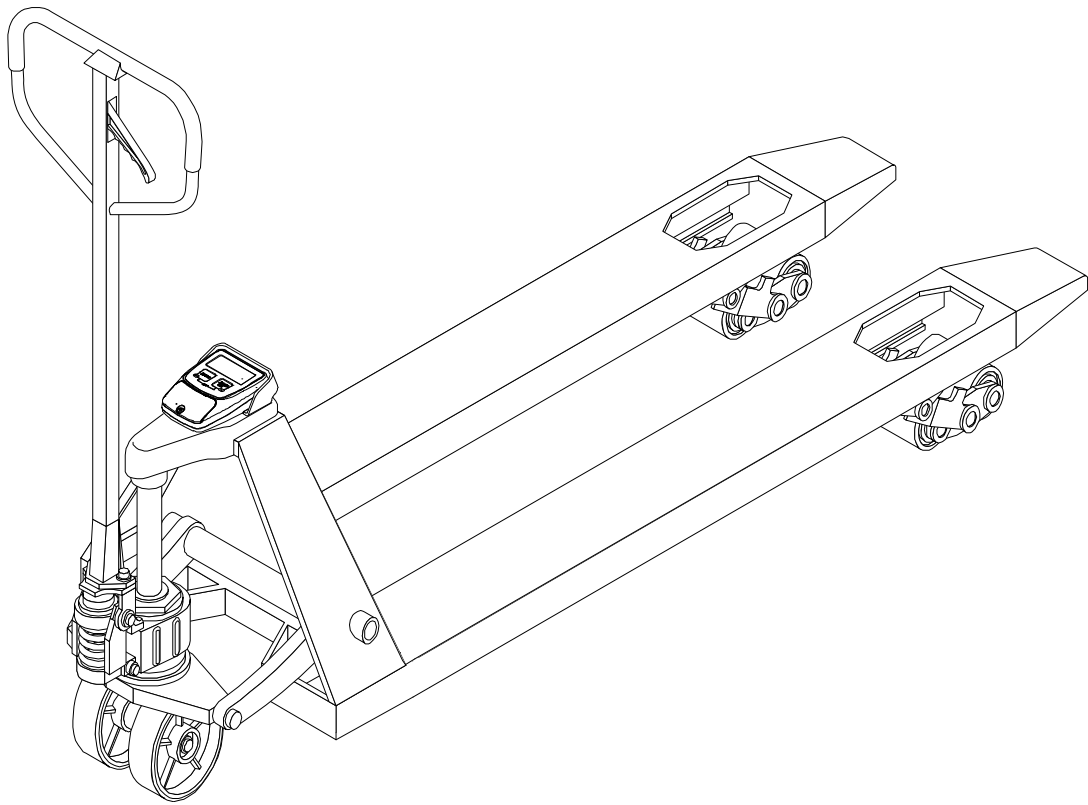


# USER MANUAL

## ESE20/5



**Note: User MUST read and understand these operating instructions before using this Hand Pallet truck with weight indication.**

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## 1. Introduction

Thank you for using this hand pallet truck with weight indication. Your hand pallet truck with weight indication was designed to give you a reliable and easy to use product. For your safety and correct operation, please carefully read this instruction before using it.

**NOTE: All of the information reported herein is based on data available at the moment of printing. We reserve the right to modify our own products at any moment without notice and incurring in any sanction. So, it is suggested to always verify possible updates.**

## 2. General Specifications

Capacity	2,000kg/4,500lbs
Graduation	5kg
Weighing accuracy	0-500kg range -> +/-10kg 500-1000kg range -> +/-20kg 1000-2000kg range -> +/-30kg
Power Source	2 "AA" penlight batteries 1.2-1.5V
Environment	General purpose, dry, little rain
Operating temperature	-10°C to 40°C (14°F to 104°F) with 10 to 95% relative humidity

## 3. Warnings & Safety measures

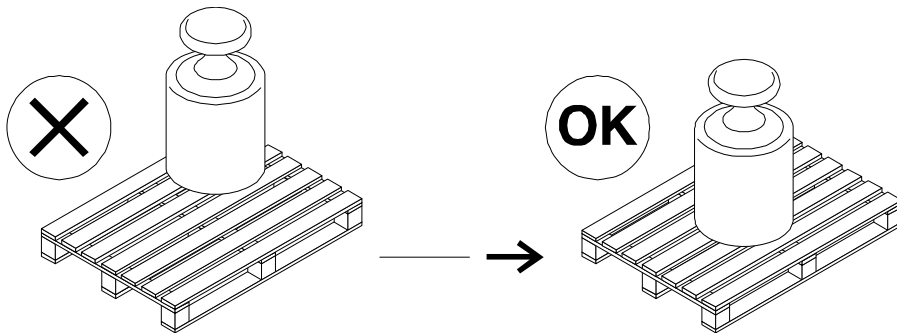
When using the hand pallet truck with weight indication please observe carefully the instructions and guidelines contained in this manual. Always perform each step in sequence.



- All safety regulations that apply to the pallet truck remain valid and unchanged.
- Any modifications done to the system must be approved in writing from the supplier, prior to any work being completed.
- Do not operate this unit unless you have been fully trained of its capabilities.
- Check the accuracy of the scale on a regular basis to prevent faulty readings.
- Only trained and authorized personnel are allowed to service the scale.

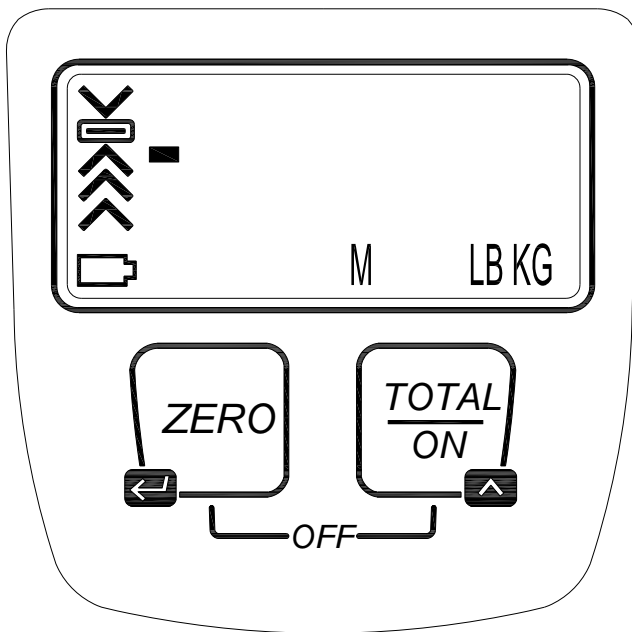
#### 4. Use of weighing pallet truck

##### 4.1 Use (accurate weighing)



<p>A pallet truck with a weight on a pallet is shown on an uneven surface. A circled 'X' is next to it.</p>	<p>Two thermometers are shown. The left one is labeled 'min 10° C' and the right one is labeled 'max 40° C'. An arrow points from the left thermometer to the right one, indicating the operating temperature range.</p>
<p>A pallet truck with a weight on a pallet is shown on a slope. A circled 'X' is next to it. A vertical arrow indicates a height of '- 2'.</p>	<p>A pallet truck with a weight on a pallet is shown. The weight is labeled '&gt; max.'. A circled 'X' is next to it.</p>
<p>A pallet truck with a weight on a pallet is shown. A long handle is being used to lift the weight. A circled 'X' is next to it.</p>	<p>A pallet truck with a weight on a pallet is shown on uneven ground. A circled 'X' is next to it.</p>
<p>A pallet truck with a weight on a pallet is shown. A hand is lifting the handle. A circled 'X' is next to it. An arrow points down from the handle and an arrow points up from the weight.</p> <p>Don't lift too fast / heavy.</p>	<p>A pallet truck with a weight on a pallet is shown. A hand is lifting the handle. A circled 'X' is next to it. An arrow points up from the weight.</p> <p>Don't lift too slow / smooth.</p>

## 4.2 Indicator functions



### Displayfunctions



When the load has been lifted too high, arrow down is ON.



When the reference height has been reached, the reference level stripe will be encircled.



1 arrow is ON. The reference height is almost reached, lift slowly.



2 arrows are ON. Lift more slowly.



3 arrows are ON. Lift towards the reference height.



The weight shown is negative.

**M**

The weight has been stored in the memory.

**LB**

Displayed shows weight is pounds (to be set by parameter settings menu).

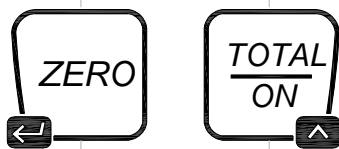
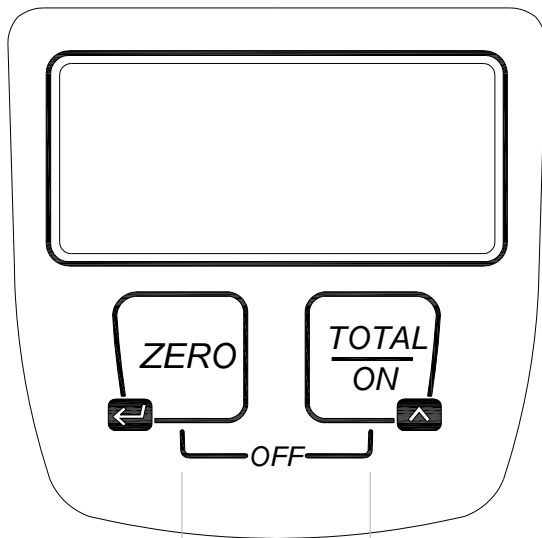
**KG**

Displayed shows weight is kilogram (standard setting)



Low bat indicator

## Key functions

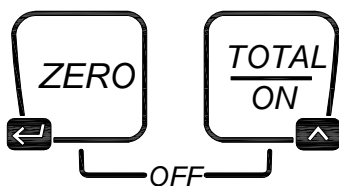


function 1: Switch on indicator  
Add weight to total

function 2: Recall subtotal

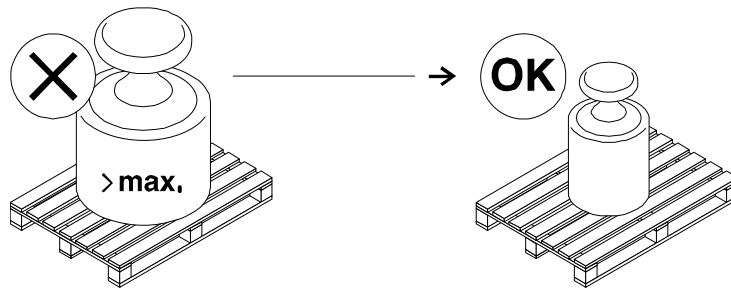
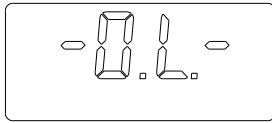
function 1: Zero correction

function 2: Zero calibration  
Reset recalled subtotal

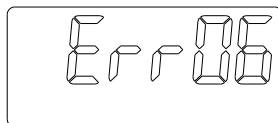


function: Switch off by pressing both keys

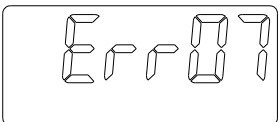
### 4.3 Error messages



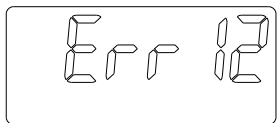
The weighing system has been overloaded. Remove weight.



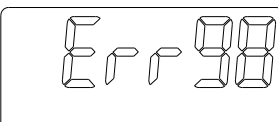
Signal from the sensor on AD converter is too high. Check sensor connection.



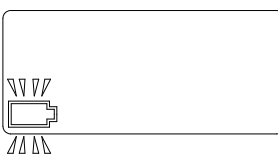
No signal from the sensor on AD converter. Check sensor connection.




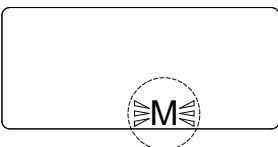
Span calibration data lost. Recalibrate the system.



Calibration point must be higher than previous one and higher than value of 25. Or entered value calibration point value is equal to 0000.



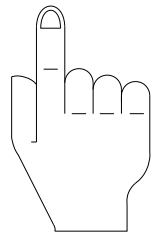
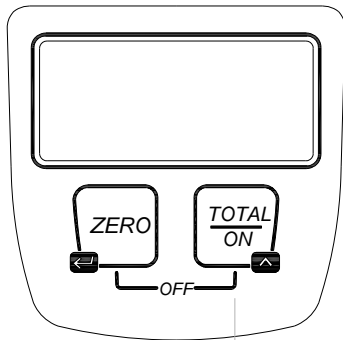
 symbol is blinking.  
The battery voltage level is running low. The battery has to be charged.  
(See page 14)



Flashing M, memory is full ( >99.999 kg cannot be shown by using 5 digits), no weights can be accepted to be added. Erase memory.

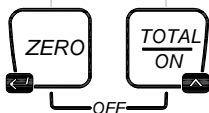
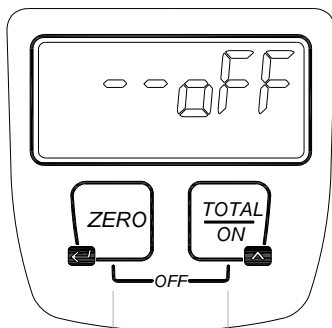
#### 4.4 On / Off switch

##### Switching on the indicator

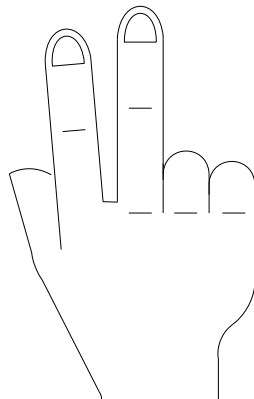


Start up the indicator. Shortly press the ON key.

##### Switching off the indicator



2 sec.



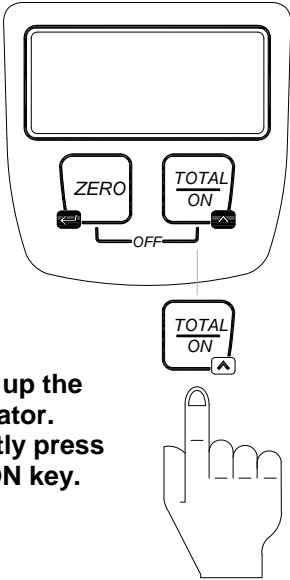
Switch off the indicator by keeping both keys simultaneously pressed for 2 seconds.

The indicator will switch off automatically after 2 minutes if no key press and no motion.



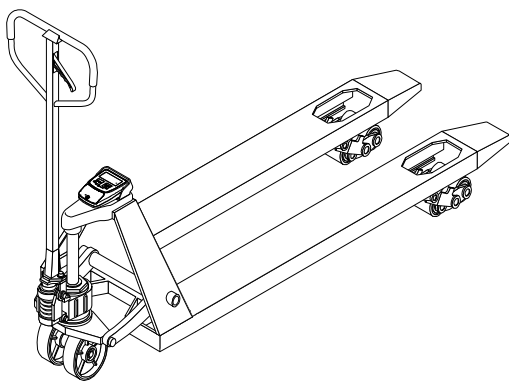
#### 4.5 Zero check before weighing & correction

**1**



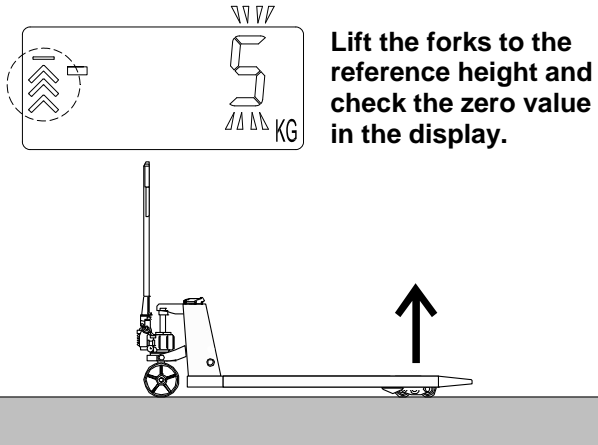
Start up the indicator. Shortly press the ON key.

**2**



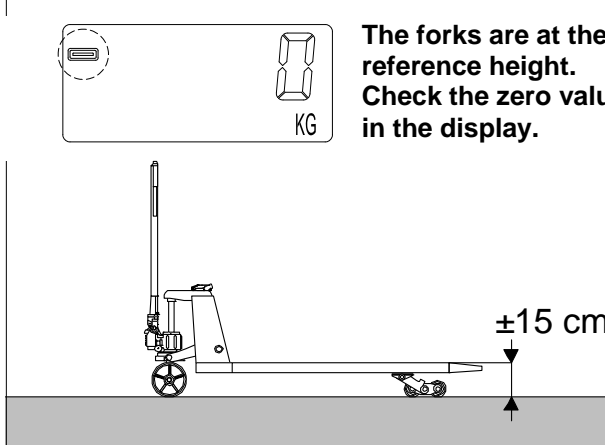
Be sure the forks of the hand pallet truck are empty.

**3**



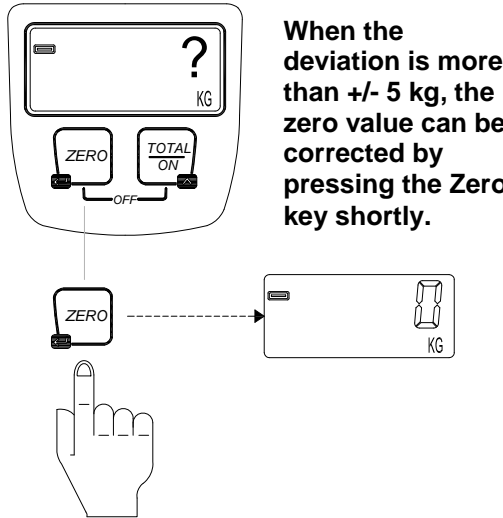
Lift the forks to the reference height and check the zero value in the display.

**4**



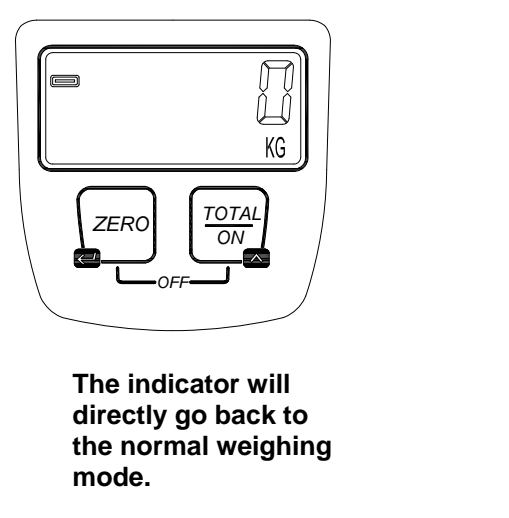
The forks are at the reference height. Check the zero value in the display.

**5**



When the deviation is more than +/- 5 kg, the zero value can be corrected by pressing the Zero key shortly.

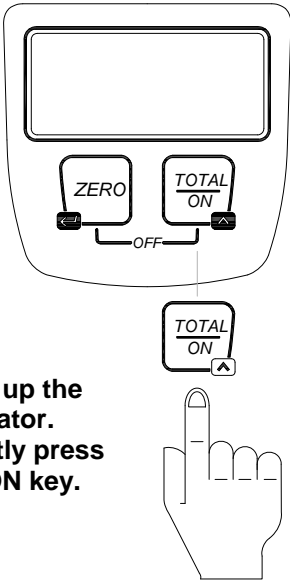
**6**



The indicator will directly go back to the normal weighing mode.

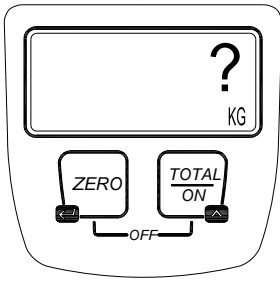
## 4.6 Gross weighing

**1**



Start up the indicator. Shortly press the ON key.


**2**



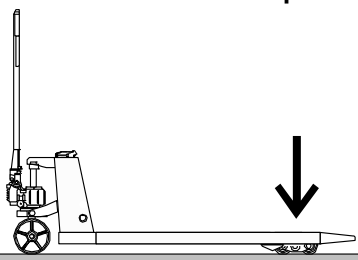
Display shows the actual weight on the forks. When the pallet truck is empty, this value will be within +/-40 kg

When the pallet truck is not on the reference height, the digits will be flashing.

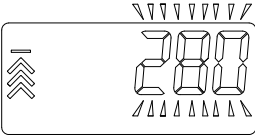
**3**



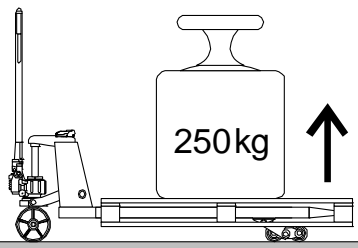
Lower the pallet truck into its lowest fork position. In lowest position the 3 arrows-up are ON.



**4**

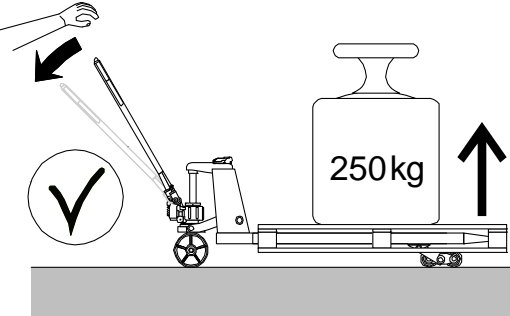
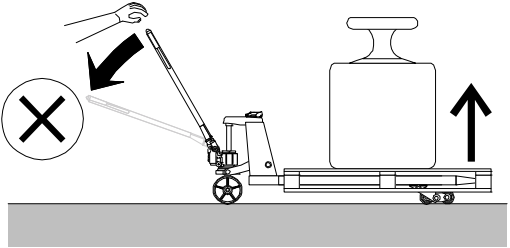


Pick up a load and lift it to the reference height. The 3 arrows up are ON. Lift fast !

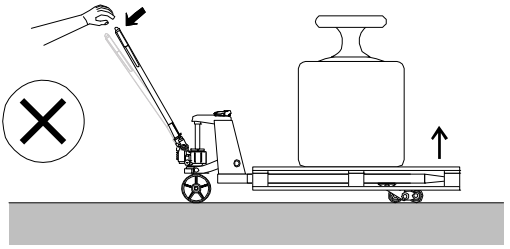


**5**

When the 3 arrows up are ON. Lift towards the reference height !

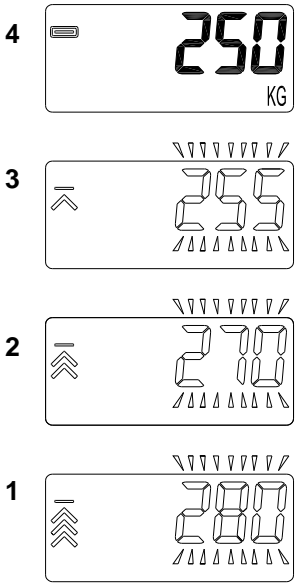



Don't lift too fast / heavy.



Don't lift too slow / smooth.

6



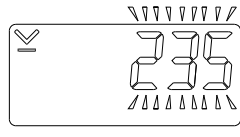
**The reference level stripe is encircled. The reference height has been reached !**

**1 arrow-up is ON. Lift slowly !**

**2 arrows-up are ON. Lift more slowly !**

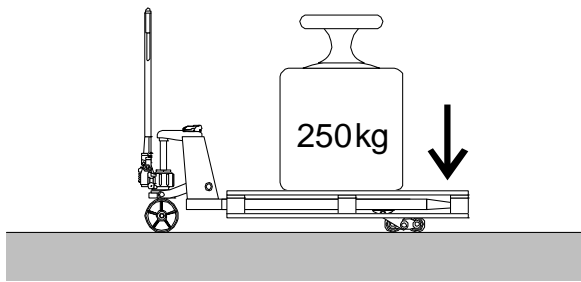
**The 3 arrows up are ON. Lift !**

7

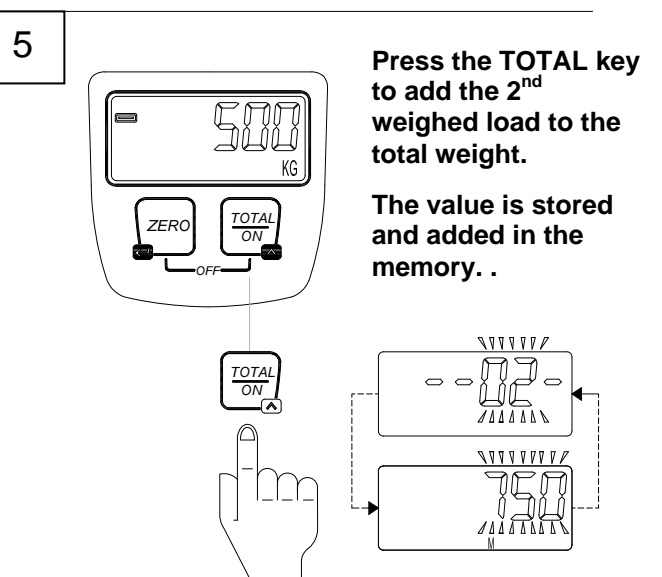
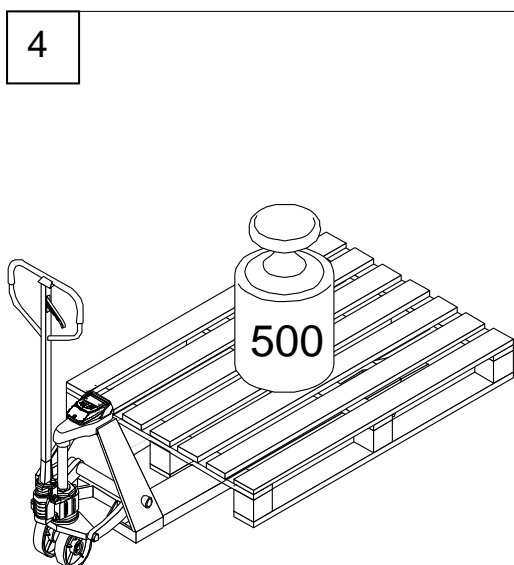
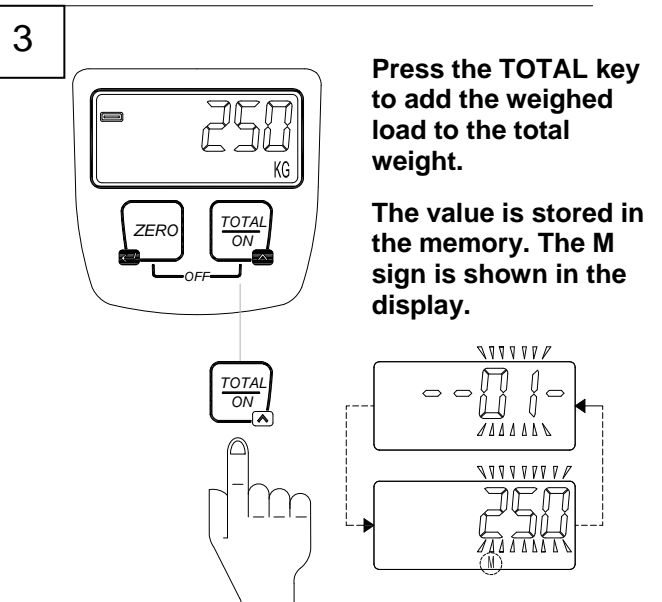
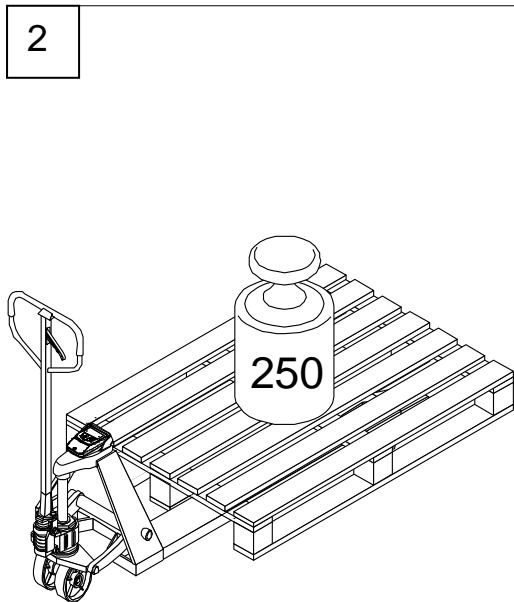
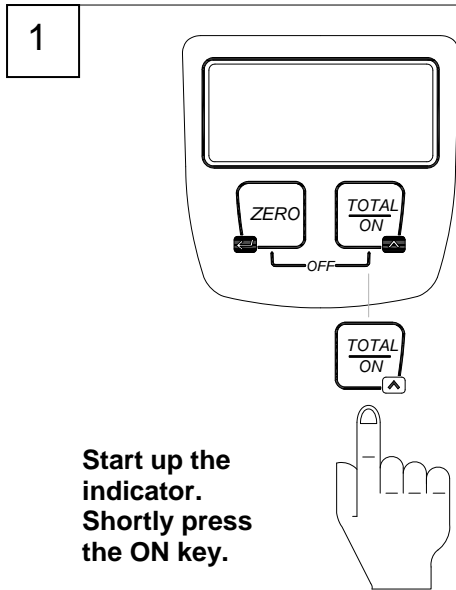


**When the load has been lifted too high, the arrow-down is ON.**

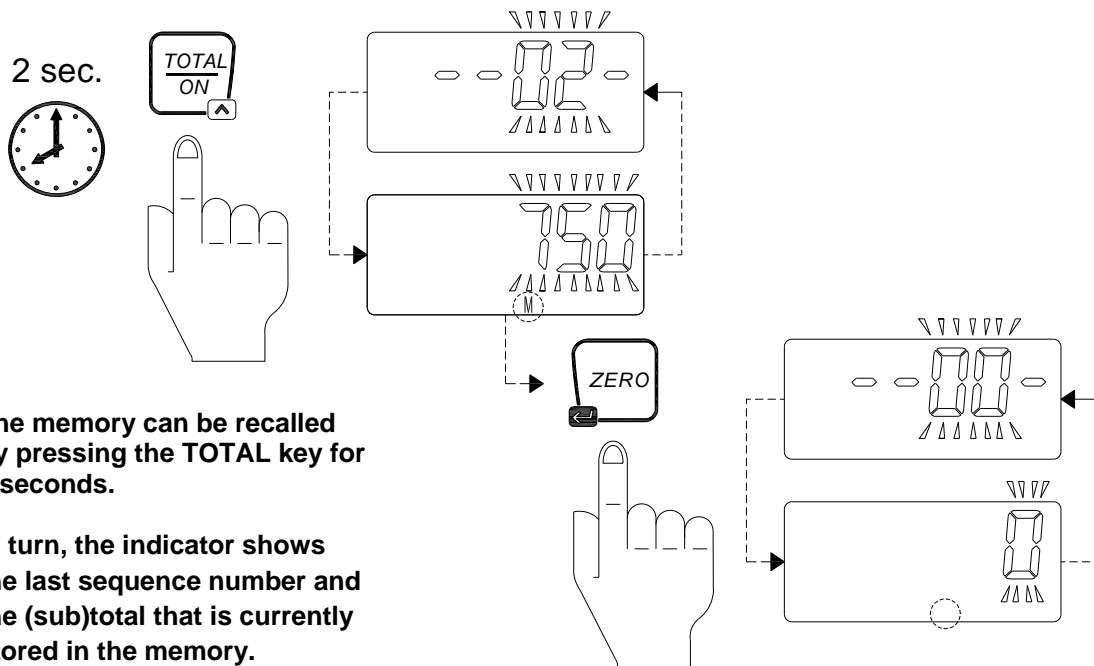
**The pallet truck must be lowered completely to the ground first to allow a new weighing.**



## 4.7 Totalling



## 4.8 Total and reset



The memory can be recalled by pressing the TOTAL key for 3 seconds.

In turn, the indicator shows the last sequence number and the (sub)total that is currently stored in the memory.

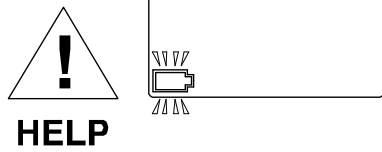
The memory can be erased by pressing the ZERO key shortly.

The system will automatically return to the standard weighing mode.

The M sign is de-activated again.

## 5. Changing the batteries

The power supply to the system takes place through 2 AA batteries. When used normally, the batteries will last for about 1 year.



When the voltage level of the batteries is running low, the “low bat” symbol will be blinking.

When the batteries are completely empty, the weighing system switches off.

