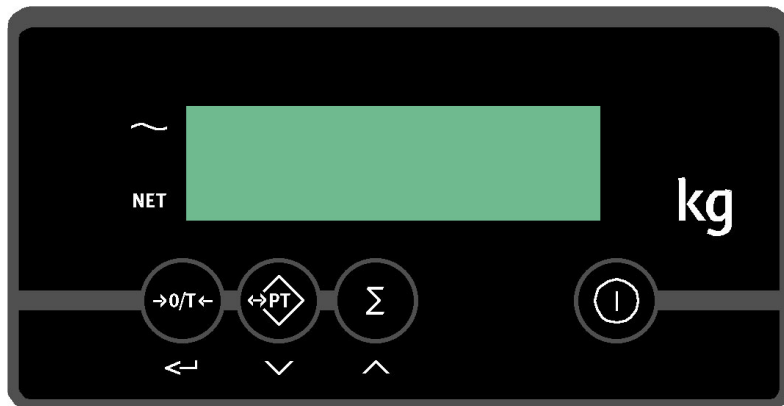


# OPERATION MANUAL INDICATOR 2100

<b>INDEX</b>	<b>page</b>
1. Touch panel indicator	2
2. Functions indicator	
2.1. Multirange	4
2.2. Before weighing: check zero point	4
2.3. Gross weighing	4
2.4. Net weighing: automatic tare	4
2.5. Net weighing: manual tare entry	5
2.6. Totaling	6
2.7. Print-out (option)	7

# 1. TOUCH PANEL INDICATOR



Front indicator

## THE DISPLAY

By means of three pointer bars the display shows:

~ ◀ the weighing system (including load) is stable

— the weight shown is negative

NET ◀ the display shows the net weight

## THE DISPLAY INDICATIONS

The minus sign lights in the display. The following indications can be shown in the display:

HELP 1 the weighing system has been overloaded.

HELP 2 taring of negative weight.

HELP 3 negative signal from the load cell on AD converter / tilted position.

HELP 4 the tare value entered (manually) is too high. Press key ↔PT again to delete this help message and key in a lower tare value.

HELP 5 totalling memory full.

HELP 6 no Bluetooth connection.

HELP 7 signal from the load cell on AD converter is too high.

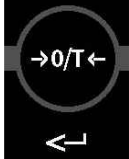




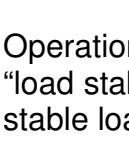
HELP 8 tilted position (only RF-systems)

HELP 9 low bat on transmitter (only RF-systems)

LO-BA the battery voltage level is running low. The battery has to be charged.

## THE TOUCH PANEL

Each key has an operational and an entry function.

	<b>Operational function</b>	<b>Entry function</b>
	zero setting and automatic tare	confirm and digit to the left
		
	tare entry	decreasing flashing digit
	totalising	increasing flashing digit
		
	on / off	clear

## IMPORTANT

Operation of a key is not accepted unless the weighing system is stable (and the sign “load stable” lights up). This means that the indicator only executes commands with a stable load.

## WARNING

When the weighed load surpasses the pre-set maximum, the display shows: “HELP1”. In order to prevent damage to the indicator or load cells, the weighing system must be unloaded immediately.

## TILTED POSITION

With the approved version of the weighing system, the help display shows small bars when this system is in a tilted position larger than 2°. In this case, the weighing system must be placed in a horizontal position. After this, the system continues executing any commands.

## **2. FUNCTIONS INDICATOR**

### **2.1. MULTIRANGE**

The graduation of the indicator depends on the weighed load:

- from 0 to 200 kg the weight is shown in 0.2 kg steps and
- from 200 to 500 kg the weight is shown in 0.5 kg steps and
- from 500 to 2000 kg the weight is shown in 1 kg steps.

Because of the weight dependant graduation, smaller loads are weighed with a higher accuracy.

After taring a weight, smaller weights can be added or subtracted in the graduation belonging to the smaller weight. Both for adding and removing weights, the graduation changes too. For example: if weight is removed from an original load of 650, upon reaching 500 kg the display will change to 0.5 kg steps.

### **2.2. BEFORE WEIGHING: CHECK ZERO POINT**

Before each weighing it is necessary to check whether the system is unloaded and free. The indicator is fitted with an automatic zero correction. This means that small deviations of the zero point will be corrected automatically. If the indicator does not determine the zero point automatically, it must be done manually using the →0/T← key.

### **2.3. GROSS WEIGHING**

After lifting a load, the display shows the gross value of the weighed load.

### **2.4. NET WEIGHING: AUTOMATIC TARE**

The indicator offers the possibility to reset tare weights to zero automatically. This way added or subtracted weights can be determined. After taring, the display continues in the smallest step.

- Lift load.
- Press key →0/T←.
  - The indicator is set to zero.
  - The "NET" pointer shows that a tare weight is activated.
- Place or remove the net load.
  - The display shows the net value of the weighed load.
  - When removing load, this is a negative value.

- By executing a zero setting in unloaded position, the system will return to the standard weighing mode.

## 2.5. NET WEIGHING: MANUAL TARE ENTRY

A tare weight can be entered at any moment, meaning in either a loaded or unloaded situation. For a higher accuracy, a tare weight can be entered with a smaller graduation step, independent of the applied load and the active graduation of the indicator.

A tare weight larger than the so-called MAX1 of the weighing system will not be accepted by the indicator. The MAX1 is the value of the weight of the first range; in the standard version 200 kg (see 2.1.). If a larger weight is keyed in, the display shows: "HELP4". Upon pressing key ⇄PT, this HELP indication disappears.

- Press the ⇄PT key.
  - ❑ The display shows the current tare value.
  - ❑ The digit on the right flashes.
- Press ENTER(↵) for three seconds if the current tare value is required.

**Or**

- Press the ⇄PT key.
  - Press the ^ key to go up a value or press the v key to go down a value until the required value is reached.
  - Press ENTER (↵) to change the next value.
  - Repeat this procedure until the required tare value is displayed.
  
  - To activate the tare weight, *but without storage in the memory*: press ENTER(↵) for three seconds.
    - ❑ The tare weight is activated.
    - ❑ The "NET" pointer lights up.
    - ❑ When the system is loaded at this moment, the net value appears in the display.
    - ❑ When the system is unloaded, the read-out displays the given tare value negatively .
    - ❑ The keyed in value remains active until the system is turned off, a new tare weight is entered, a new load is tared (see 2.4.) or by resetting the tare value to zero:
      - The weighing system is loaded: press the ⇄PT key for two seconds. The tare value is set to zero and the system returns to the standard weighing mode.
- Or**
- The weighing system is unloaded: press the →0/T← key. The tare value is set to zero and the system returns to the standard weighing mode.
- 
- To activate the tare weight *and store it in memory*: go through all the digits by pressing ENTER(↵).
    - ❑ The tare weight is activated and stored in the memory.

- The “NET” pointer lights up.
  - When the system is loaded at this moment, the net value appears in the display.
  - When the system is not loaded, the tare value input is displayed negatively.
  - The keyed in value remains active, even if the system is turned off, until a new tare weight is entered, a new load is tared (see 2.4.) or by resetting the tare value to zero:
    - The weighing system is loaded: press the ⇄PT key for two seconds. The tare value is set to zero and the system returns to the standard weighing mode.
- Or**
- The weighing system is unloaded: press the →0/T← key. The tare value is set to zero and the system returns to the standard weighing mode.

## 2.6. TOTALING

The indicator offers the possibility to add up weighings and show the total weight. When a tare weight is active, the net weight is added up automatically.

- Load the system with the weight that should be added.
- Press the  $\Sigma$  key to add the weighed load to the total weight.
  - The value of the display is stored and added in the memory.
  - In turn, the indicator shows the sequence number (number of weighings) and the (sub)total.
  - If the weighing system has been equipped with a printer, the value shown is printed at the same time.
  - After a few seconds the system will automatically return to the standard weighing mode.

**Or**

- Press the  $\Sigma$  key for three seconds to refer to the total weight calculated thus far (without totaling).
  - In turn, the indicator shows the sequence number (number of weighings) and the (sub)total current in the memory.
  - After a few seconds the system will automatically return to the standard weighing mode.
- The memory can be erased by pressing the  $\Sigma$  key during the display of the total.
  - If the system is equipped with a printer, an overview print is made.
  - The display shows sequence number 00 and the total weight 0.0 kg.
  - The system will automatically return to the standard weighing mode.

## 2.7. PRINT OUT (OPTION)

If the weighing system has been equipped with a printer, actual weighing data can be printed out.

- Press the  $\Sigma$  key.
  - A print is made. The weight is at the same time stored and added in the memory (see 2.6.).
- For approved systems, after every print out unload to 0 before making the following print out.

In the printout a gross weight is indicated with the letters “B/G” and a net weight with the letter “N”. A keyed in tare weight will also be printed and is indicated with the letters “PT”. The total weight is shown with the letters “TOT”.

Example printout:

01	B/G	6.8	kg
02	B/G	158.2	kg
03	N	426.5	kg
04	N	1200.0	kg
<u>04</u>	<u>PT</u>	<u>150.0</u>	<u>kg</u>
04	TOT	1791.5	kg.