WorldWEIGH

Compact Bench Scale for Internal Use

B 100

Use and Maintenance Manual

Code   **81320220**

DECLARATION OF CONFORMITY

SOCIETA' COOPERATIVA BILANCIAI

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We declare that the product described in this manual complies with the following CE requirements

- 90/384 CEE and subsequent modifications: Standard EN 45501
- 2004/108/CE : Standard EN 61000-6

Campogalliano 01/10/2008   Business Unit Manager
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1. GENERAL

The B100 series comprise accurate, fast and multi-task scales with piececounter, percentage and checkweigher functions.

The range includes 4 models with capacity up to 30 kg, they are all mounted on a base in ABS and a stainless steel weighing platform, keyboards are all water proof with membrane keys and the backlighted liquid crystal displays (LCD) are large to make reading easier.

All instruments come with automatic zero tracking, acoustic alarm for the checkweigher mode and storage function for the counting which can be recalled as accrued total.

2. KEYS

Zero or **→0←**

Sets the scale to zero for the following weighing operations. Zero is displayed.

Secondary function: ◣ "Enter" key in the parameter settings or other functions.

Tare or ⬦

Inserts a tare. Stores the current weight as tare value, subtracts it from the weight and displays the result, that is the net weight.

Secondary function: ▲ shifts to the next digit while entering values for parameters or other functions.

Lim or ⌐ or **CHK**

Sets the limits for the Checkweigher function. It allows the setting of the upper limit, lower limit or both.

Secondary function: ▶ shifts to the right the active digit while setting values for parameters or other functions.

%

Activates the Percentage mode. Allows the visualization of weight, unit weight and counting in the Piececounter mode.

Secondary function: ◀ shifts to the left the active digit while setting values for parameters or other functions.

Func or ⟳ or **F**

Selects the scale function. If the current scale mode is Weighing, it selects the Piececounter mode. If the scale is not in the weighing mode, it selects the weighing mode.

Secondary function: (**C**) acts as a deleting key for the cancellation while setting values for parameters or other functions.

Print or ◉

Adds the current value to the stored total.

Secondary function: (**ESC**) takes back the scale to the normal operation when in parameter setting mode.

U or **UNIT**

This key selects kilograms, pounds, ounces as unit of measurement.

3. OPERATING MODES

3. 1 DISPLAY ZEROING

It is possible to press the **ZERO** key to set the scale to zero for all subsequent weighing operations within 4% of the power on. This is usually necessary whenever the scale is empty. Upon zero setting, the scale displays the zero indication.

The scale comes with an automatic zeroing function in case slight drifs are detected or some material has accumulated on the platform. Anyway, press the **ZERO** key to set the scale to zero whenever a small value is displayed when the platform is empty.

3. 2 TARE CAPTURE

If necessary, set the scale to zero pressing **ZERO**. The zero indication appears.

Place a container on the platform, the value of its weight is displayed.

Press **TARE** to capture a tare. The displayed weight is stored as tare value, then subtracted and zero is displayed. The indication "NET" appears. Only the weight of the products added on the scale is displayed. It is possible to insert another tare in case a second product has to be weighed. Again, only the weight added after the tare caption is displayed.

Upon removal of the container, a negative value is displayed. If the scale has captured a tare just before the removal of the full container, the value is the gross weight. The zero indication is on as the platform is again in the condition it was before **ZERO** was pressed.

3. 3 SAMPLE

To determine the weight of a sample it is necessary to save the tare of the empty container, then add the sample to the container. Their weight and unit of measurement currently in use are displayed.

3. 4 PERCENTAGE MODE

The scale allows to a sample weight to be displayed as 100%. Any other weight placed on the scale is then displayed as a percentage of the sample weight. For example, if 350g are put on the scale and the **%** key is pressed, the display shows 100.00%.

If the 350g weight is replaced by 300g, the display shows 85.71% as 300g is 85.71% of 350g.

Note: it can happen that the scale performs big increments in case small samples have been used to set 100%. For example, if there are only 23.5g on the scale with division 0.5g to set 100%, 100.00% is displayed, and a slight change of weight causes the scale to display 102.13% as an increase of a division, that is 0.5g (24.0g) is equivalent to an increase of 2.13%.

  Press the % key to enable the Percentage mode and press **FUNC** to return to the Weighing mode.

3. 5 PIECECOUNTER MODE

Before getting started, store the tare of every container to be used leaving the container empty on the scale. Place the intended quantity of samples on the scale selecting one of the options: 10, 20, 50, 100 or 200 pieces.

Press the **FUNC** key. The scale displays "P   10" to ask for a sample comprising 10 pieces. To change the sample dimension press the **TARE** key. The display scrolls cyclically the following options: 10,20, 50, 100, 200 and returns to 10.

Press the **ZERO** key when the number matches the quantity of pieces used as sample. Adding weight, the display shows the number of pieces (pcs).

Press the **%** key to see the unit weight (g/pcs), total weight (kg) or the counting (pcs). Press the **FUNC** key to return to the normal weighing mode.

3. 6 CHECKWEIGHER MODE

The Checkweiher mode activates an alarm whenever the weight on the scale reaches or exceeds the set values included between an upper limit and a lower limit. Limits can be used individually or at the same time.

Press the **LIMIT** key. The current Upper Limit is displayed, its left digit flashing and the symbol HI on the left of the display. To modify the displayed value, use the % and **LIMIT** key to select the digit to be changed. Then pressing the **TARE** key, move along the active digits. Press **ZERO** when the number is correct to enter the value. To set the value to zero, press the **FUNC** key which deletes it.

After pressing **ZERO** the Lower Limit is displayed, the symbol LO appears on the left of the display.

Follow the same procedure to set the lower limit.

After pressing **ZERO** the scale returns to the Weighing mode with the Checkweigher mode activated.

Loading the scale with a weight outside the limits, causes arrows to appear and the alarm activates as previously described.

BOTH LIMITS SET

> OK is displayed and the acoustic alarm activates if the weight is inside the limits.

LOWER LIMIT SET, UPPER LIMIT equals zero

> OK is displayed and the acoustic alarm activates if the weight is under the Lower Limit. Above the lower limit, HIGH is displayed and the alarm is not activated.

UPPER LIMIT SET, LOWER LIMIT equals zero

> LOW is displayed and the alcoustic alarm does not go off if the weight is under the Upper Limit. Above the Upper Limit OK is displayed and the acoustic alarm is activated.

BOTH LIMITS SET. LOW value higher than HIGH

> The alarm does not go off and LOW is displayed in case the weight is under the Lower Limit and HIGH in case the weight is above the Lower Limit.

Note: A proper Checkweigher operation is possible only if the weight is heavier than 20 divisions. To disable the Checkweigher mode, enter zero in both limits pressing **FUNC** when the current limits are displayed, then press **ZERO** to save.

Note: it is possible to set the upper/lower limits in all modes: normal, percentage and piececounter.

3. 7 GENERAL TOTAL
The scale can totalize weights pressing **PRINT**.

3. 8 TOTALIZATION
The displayed weight is stored pressing **PRINT** when the weight is stable.
"ACC 1" is displayed, then the stored total for 2 seconds.
Remove the weight, let the scale returns to zero and load another weight. Press **PRINT**, "ACC   2" is displayed before the new total.
Keep adding articles until all weights have been loaded.
To see the stored totals, press **PRINT** when the scale is at zero. The total number of articles "ACC   xx" is displayed and the total weight as well before returning to zero.
To clear the memory press **PRINT** to display the totals, then press **FUNC** to clear the memory.
Up to 99 products can be stored placing a product on the scale and pressing **PRINT** or to the capacity of the display.

4. BATTERY OPERATION
The scale can be battery operated. The battery has an approximately 80 hour life span.
When the battery needs to be recharged, the arrow above the low battery symbol under the weight display is on. The battery must be recharged as soon as the arrow above the symbol appears. The scale operates for one hour, then it automatically switches off in order to protect the battery.
To recharge the battery plug it in the power network. It is not necessary for the scale to be on.
The battery needs 12 hours to fully recharge.
Under the display, a LED informs about the battery status. When the scale is connected to the power network, the built in battery is recharging. If the LED is green, the battery is completely charged. If it is red, the battery is almost flat. Using the battery can cause it to fail full recharge. If the battery life span becomes unacceptable, please contact the dealer.

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