

User Manual

Electronic industrial scale

BL 100K

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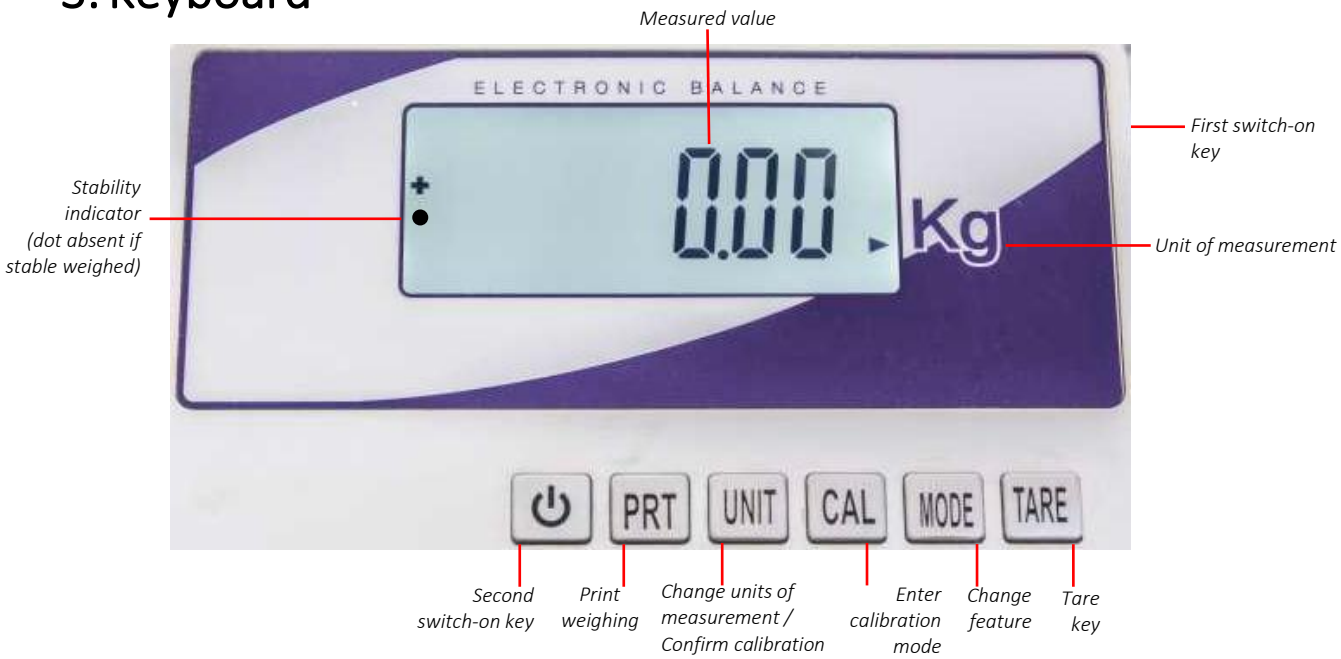
1. Data sheet

Code	27001213
Capacity	100 Kg
Resolution	10 g
Repeatability	± 10 g
Linearity	± 5 g (0..5 Kg); ± 10 g (5..20 Kg); ± 15 g (20..100 Kg)
Minimum weighing	10 g
Plate size (mm)	300 * 400
*Size (L*l*H mm)*	530 * 300 * 680
Weight	11,2 Kg
Display	Backlit LCD, removable
Level	Yes
External calibration	Yes
RS232 port	Yes
Features	Weighing, Piece-Counting and Percentage
Unit of measurement	Kg – g – lb
Adjustable feet	Yes

2. Installation

- Position the scale and, using the adjustable feet and the level on the back, adjust the tilt.
  The scale MUST be level.
- Protect the scale from major air currents/atmospheric agents, vibrations and strong electromagnetic waves.
- Working temperature: 5°C ... 35°C.
- Allowable moisture content: 50% ... 85%.
- Installation and removal of the scale should be done with the machine switched off.
- Do not use the scale upside down.
- Connect the power supply to the scale and to the power network, turn it on by first side button and then front button. After turning on the power, wait at least 30 minutes of warm-up time before performing the first weighing.
- The tare weight should never exceed the maximum capacity of the scale.
- For service, contact your dealer or an authorized service center.

3. Keyboard



4. User calibration

One-point calibration

Press “CAL” for 3 seconds and enter calibration mode. The display will show “CAL—L” and then “CAL-d1”. Pressing the “CAL” key again allows you to choose the single point on which to carry out the calibration (“CAL-d1” – “CAL-d2” – “CAL-d3”). Place the weight on the weighing pan, wait a few seconds, and press the “UNIT” key to confirm the point. The display will show “- CAL -”. The scale will accept the calibration and prompt for the next point, but pressing the “UNIT” key again without placing any load on the pan will stop the procedure and return the instrument to weighing mode. After calibration, if the weighing is not correct, perform calibration again.

Multi-point calibration

Press “CAL” for 3 seconds and enter calibration mode. The display will show “CAL—L” and then “CAL-d1”. Pressing “CAL” again will start the 3-point calibration procedure (“CAL-d1” – “CAL-d2” – “CAL-d3”). Place the weight on the weighing pan, wait a few seconds, and press the “UNIT” key to confirm the point. The display will show “- CAL -”. The scale will accept the calibration and prompt for the next point. Repeat the same procedure until the final point. After calibration, if the weighing is not correct, perform calibration again.

5. Units of measurement

Available units of measurement are kg, g and lb. During weighing, press the “UNIT” key to change it. To save it as default, press and hold the “MODE” key for 3 seconds. “UNIT” will appear on the display. Press the “TARE” key once and then press the “MODE” key again to change the unit. Confirm this by pressing “TARE” again.

6. Tara

Press “TARE”, the scale will only tare when the black dot disappears (stable measurement).
If the black dot remains present, wait for it to disappear and press “TARE”.

Zero monitoring and automatic tare

- Switch off the scale.
- Press and hold the “CAL” key and switch on the scale at the same time: the display will show “-Zero”.
- Release the key and press “TARE”. The display will show “Zero5d”.
- Press “TARE” to change from 5 to 0:
  “-Zero0d” means zero monitoring function switched off (sensitivity is higher);
  “-Zero5d” means zero monitoring function active (default setting).
- Press “CAL” to confirm, the display will show “-tArE-“.
- Press “TARE”: “-tArE9d” will appear on the display; press “TARE” to change from 0 to 9:
  “-tArE0d” means automatic tare deactivated;
  “-tArE9d” means automatic tare active (default setting).
- Press the “UNIT” key, the settings will be saved.
- The settings will remain saved for future use.

7. Measuring

With the scale at 0,00, and tare it if necessary, place the sample you wish to weigh on the pan. Read off the mass value only when the black dot on the lower left screen has disappeared (this means that the measurement is stable). If the maximum load capacity is exceeded, the display will show “------" and you must immediately remove the mass from the weighing pan or the load cell may break.

8. Piece-counting feature

Press and hold the “MODE” key for 3 seconds. “UNIT” will appear on the display. Then press the “MODE” key again to change from “UNIT” to “COUNT”. Confirm this by pressing “TARE” again. The display will show “10 pcs”. Press “MODE” to change from “10 pcs” to “500 pcs” (the higher the number of pcs, the higher the accuracy of the number of pcs). Place the previously selected number of samples on the weighing pan, then press “TARE”. The display will show “------“, so the count has been performed. When the unit weight is less than 2d (d = division) the display will show “no-Cou” and therefore the scale will not be able to count the pieces. In this case a large quantity of pieces should be taken.

9. Percentage feature

Press and hold the “MODE” key for 3 seconds. “UNIT” will appear on the display. Then press the “MODE” key again to change from “UNIT” to “PER”. Confirm this by pressing “TARE” again, “100.00%” will appear on the display. Place the weight corresponding to 100% on the scale pan and press “TARE” to confirm. After removing the weight with which 100% was set, the display will show the percentage in weight. When the weight set as 100% divided by 100 is less than 2d, the percentage function cannot be used. It is necessary to add weight when doing 100%.

10. Printer settings and RS232 connection

Press and hold the “MODE” key for 3 seconds. “UNIT” will appear on the display. Then press the “MODE” key again to change from “UNIT” to “PRT”. Confirm this by pressing “TARE” again, either “hAnd”, “Auto” or “Contin” will appear on the display. Press “TARE” to choose what you want:

- “hAnd” - the weighing will print when the “PRT” key is pressed.
- “Auto” - will print when the mass placed on the weighing pan is >3d and when the measurement is stable.
- “Contin” - prints continuously.

Transmission data format via RS232 connection: each 10BIT is a data frame.
BIT1, BIT2, BIT3, ... BIT8, BIT9, BIT10.
BIT1: Start bit, BIT2 ... BIT9: Data bit, BIT10: Stop bit.
Transmission speed: 9600 bps. All words are in ASCII code.



Electrical and electronic equipment with this symbol affixed may not be disposed of in public landfills. In accordance with the WEEE Directive 2012/19/EU, European users of electrical and electronic equipment have the option of returning used equipment to the Distributor or Manufacturer when purchasing new equipment. Illegal disposal of electrical and electronic equipment is punishable by administrative fine.