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8503
PARCEL SCALE

Instruction Manual

PLEASE SCAN QR CODE TO
WATCH THE OPERATION
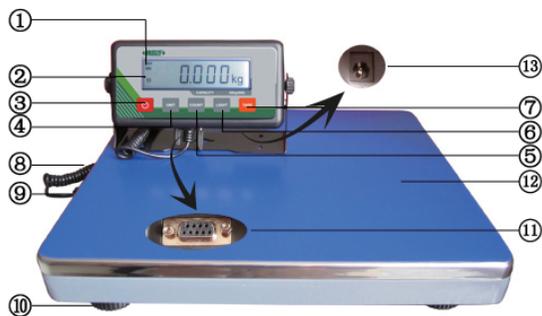VIDEO OF PRODUCTS.

VIDEO

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1.Synopsis

The 8503 series parcel scales are widely used in various weighing fields, and their excellent performance will satisfy the user's various application needs to the greatest extent.

■High precision and sensitivity, fast response speed.

■Adopting high precision strain gauge load cell, overcoming the defects of general high-precision electromagnetic electronic balance which can not weigh iron, nickel and other magnetically conductive substances.

■With automatic calibration function, automatic zero tracking function, counting function, etc..

■Adopt LCD liquid crystal display with backlight, clear display, intuitive reading.

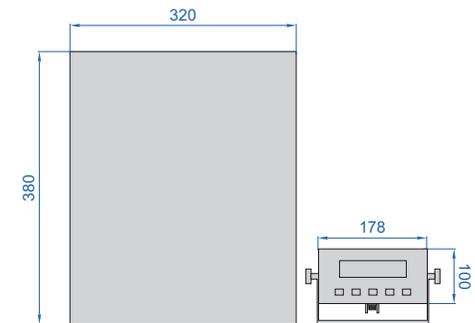■Can be used in both AC and DC

2. Outline Structure

1. Battery symbol
2. LCD display
3. On-off key
4. UNIT
5. COUNT
6. LIGHT
7. TARE
8. Data line
9. Output interface
10. Adjustable feet
11. Input interface
12. Scale pan
13. Power socket

3.Basic models and sizes

SPECIFICATION

Code	8503-30	8503-60	8503-120	8503-200
Maximum weighing	30kg	60kg	120kg	200kg
Minimum weighing	20g	100g	200g	400g
Resolution (d)	1g	5g	10g	20g
Accuracy	±3g	±15g	±30g	±60g
Weight of calibration	20kg	50kg	100kg	200kg
Weighing pan size	320×380mm			
Material	platform: stainless steel, base: die-cast aluminum			
Operation temperature	5~35°C			
Operation humidity	30%~80%RH			
Power supply	power adapter (6V/300mA) or 4×1.5V AA batteries			

Unit: mm

320
380
178
100

4. Basic Functions

■The electronic balance should be adjusted to the level bubble before use.

■Precise measurements should be warmed up for 30 minutes before use.

■"ON/OFF" key:
Turn on the power, press the "ON/OFF" key to turn on the power, the display will show "ON" and then release the key, the display will show the battery voltage (not shown when using the power adapter), the balance range, and then self-checking from "F----1" to "F----9", and then it will show "0" after stabilizing for a period of time. When the balance is turned off, press the "ON/OFF" key, the display shows "OFF", and then the balance is automatically turned off by releasing the ON/OFF key.

■"TARE" key:
If the display deviates from zero when the scale is empty, press the TARE key to bring the display back to zero; if you need to remove the tare of a utensil, place the utensil on the scale first, and press the TARE key after the value has stabilized, and the balance will display "0".

■"LIGHT" key:
Press the backlight key to select the backlight mode, "B OFF" backlight is always off, "b ON" backlight is always on, "b AUTO" backlight is on when the data is changing, and it will be turned off automatically after the data is stabilized for 3 seconds.

■ "COUNT" key:
Press the counting key to sample the item and enter the counting state.
▲ Selection of sample size: To count the objects accurately, the first step is to select the number of samples to be counted according to the weight of the objects, and the available sample sizes are "1-10-20-50-100". In order to avoid counting errors, the sample sizes should be as large as possible when counting the smaller objects and the objects with slightly different weights.
▲In the case of an empty balance, place one or more samples on the weighing platform, the balance displays the weight of the samples, then press the "COUNT" counting key, the balance displays "1", and at the same time, the unit on the right side of the display shows "pcs", which means that the balance is in counting mode, and the number of samples placed is counted as one unit, at this time, press the unit conversion key "UNIT", the display will switch between "1, 10, 20, 50, 100, to select the number that matches the selected number of samples,

and then place similar items, the display value will be the total number of objects, at this time, to return to the normal weighing state, and the display value is the total number of objects, at this time, to return to the normal weighing status, the balance will display the total number of objects. At this time, press the unit conversion key "UNIT", the display will switch between "1, 10, 20, 50, 100", to select the number of samples and the selected number of samples, and then placed the same kind of items, the display value is the total number of objects, at this time to return to the normal weighing state, just press the "COUNT" counting key again.

■"UNIT" Key:
 Press the "UNIT CONVERSION" key to convert between the two weighing units of "kg" (kilograms) and "lb" (pounds) when the balance is in the weighing state. Note: (1 lb=453.59g)

5. Calibration Methods

"CAL"Calibration : Holding on"tare"key,then press "unit" until thedisplaying window shows "C XXX" and the scale will automatic calibrate,(XXXshould be the weight of standard weights, for example: when displaying showing "C20" express the need to place a standard weight 20kg), at the same time, only placecalibrating weights on the platform,

 after stability, the scale displays the weight of thecalibrating weights and the unit "kg", till now the calibration is completed and thescale can be normally used.

6. Balance Settings

Three setting data can be adjusted: C1 Sensitivity, C2 Response speed, C3 Automatic shutdown time when the balance does not work when using dry batteries.

■ Press and hold the unit conversion key to turn on the balance, the display shows C1----2 Press the tare key to adjust the parameters of C1 0 1 2 3 4 The larger the data, the smaller the sensitivity and the better the stability.

■Press the unit conversion key again, the display shows C2----1 Press the peeling key to adjust the parameters of C2 0 1 2 3 The larger the data, the slower the response speed, the better the stability.

■ Press the unit conversion key again to display C3----1 Press the Tare key to adjust the parameters of C3 0 1 2 3 4 The auto power off time is 15 minutes when the data is 1, 30 minutes when 2, 45 minutes when 3, and 60 minutes when 4. When the data is 0, it does not turn off automatically.

■ Pressing the unit conversion key again saves the setting data and exits the setting state.

6. Simple troubleshooting methods

Error code	Explanation of fault
F-----1	Data out of display range
F-----2	A/D conversion circuit error, need to return to the factory for repair.
F-----3	Faulty keypad, check keypad
F-----5、F----L	Faulty sensor, need to return to factory for repair
F-----H	Weight out of display range
C----F	Calibration error, calibration out of zero position or unstable data

Error code	Explanation of fault
C----H	Calibration error, objects on the platform or sensor zero level too high during calibration
E-----	Error in storing calibration data, must be recalibrated for use.
O	Calibration zero indication, displayed when the balance is zeroed with an empty platform, if not, the balance needs to be recalibrated.