

# **GMB-803/806/815/830 Waterproof Digital Scale**

## **Operation Manual**

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Version 2.2



### **Gamma Scale**

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# 1. Parameters and Specifications

- 1.1 Accuracy class: OIML III
- 1.2 Internal resolution ratio: 270000
- 1.3 Display resolution ratio: 15000
- 1.4 Zero point temperature drifts no more than 0.15 $\mu$ v/ $^{\circ}$ C
- 1.5 Sensitivity temperature drifts no more than 15ppm / $^{\circ}$ C
- 1.6 Load cell exciting power: DC5V
- 1.7 Operating temperature: -25 $^{\circ}$ C~+50 $^{\circ}$ C
- 1.8 Relative humidity: no more than 100%
- 1.9 Water proof design: IP66, IP67
- 1.10 Power supply: 9V /800mA AC adapter only
- 1.11 Display: 6 digits 0.56-inch LED
- 1.12 Display stability: no more than 1 .5S
- 1.13 4 soft membrane keys
- 1.14 Platter: 235 x 205(mm)
- 1.15 Dimension: 250 x 360 x 152(mm)
- 1.16 Net weight: 3.6 kg
- 1.17 GMB Capacity: 1kg ~ 30kg
- 1.18 Units: g or kg / lb
- 1.19 Storage battery: 6V/4.5.Ah (Option)

Please charge battery on daily base whenever low battery indicating light

turns on.

## 2. Functions

2.1 Auto zero tracking

2.2 Full range tare

2.3 Dual interval

2.4 Dual display

2.5 Fixed value warning

2.6 Units: g or (Kg/Lb)

2.7 Low battery voltage indicating

2.8 Voltage saving display mode

2.9 Auto shut-off

2.10 Key beep sound selection

2.11 simple rectifying

## 3. Operation Keys

**ON**

- a. Turn on PCB power
- b. Accumulating, in power on state
- c. Select place of digit and decimal point in calibration

**OFF**

- a. Turn off PCB power for two seconds
- b. Weight unit conversion in calibration
- c. Select the digit in 0, 1, 2, ..., 9, 0 sequence in calibration

#### **TARE**

- a. Tare
- b. Make confirmation in calibration

#### **ZERO**

- a. Zero setting within allowable range
- b. Clear the accumulate value when push the [ZERO] and [ON] button in same time
- c. Select the digit in 9, 8, 7, ..., 0 sequence in calibration

## **4. Operation**

### **4.1 Power-on**

a. Adjust the support feet to make sure the scale is under level state, it must be used in non-vibration condition.

Note: Be sure that the protecting cardboard is removed before operation.

b. While using AC power, connect it with the power adaptor and tighten the attached knob. At the same time, it will charge the storage battery. When charging finish, disconnect the adapter and seal the knob.

c. Press [ON], firstly, it will display a version number after giving out a sound of

beep and at the same time display it's Max. Capacity in about 1 second, it excuses self-checking. If the zero position is normal, "0.000" is displayed.

d. If the battery indicating light  - + turns on, insert adapter and charge the storage battery in time.

#### **4.2 Zero-setting**

When the weight is under 2% F • S and if press ZFRO it will display "0.000". At the same time, indicator light "0" turns on.

The repeated zero range is 4% F • S.

Note: When the indicating "NET" light on, zero-setting doesn't work.

#### **4.3 Tare**

Place the container or packing material on platter, then press [TARE], it will display "0.000" and the indicating "NET" turns on. Press [TARE] again, it will return to the original tare display value and at the same the "NET" turns off.

#### **4.4 Unit converting**

When Scale Power up is g, scale only work under gram unit; When Scale Power up is kg or Lb, the weight units converting is allowed, press unit key to switch. If "kg/lb" light flashing, means "Lb" selected.

## **5. Rechargeable Battery Maintaining**

(Please skip this section if your scale does not have battery.)

**Attention:**

§1 GMB scale rechargeable battery is an option; Scale can work without battery when the adaptor plug in.

§2 We make sure each battery been put in stay in new and fully charged condition, however we could not warranty the battery life, it is expendable item, depend on proper maintenance.

5.1 When the low voltage indicating lights on, which means the battery voltage is too weak to work normally. At this time, insert AC power adaptor to charge in time. The scale can be operated while being charged. If continue to operate without charging in time, the scale will be forced to shut off in several minutes.

5.2 If it automatically shut off as soon as it is turned on with DC power, it means its battery voltage is seriously low, at this time charge the battery at once.

5.3 If the working time is rather short for the storage battery that is fully charged, it needs to change the storage battery:

Reversal the scale, unscrew all eight screws, remove the cover board carefully.

Take out the battery, disconnect the positive and negative metal pieces and replace with a new one. Seal the battery again with cover board.

Note: when changing, be sure of the correct electrode connection of the storage battery.

5.4 The voltage saving function is set to enlarge working time of the battery, i.e.

If the scale remain at zero position about 20 seconds and its keypad is not operated,


It will display "□" to save power and stay in sleeping mode.

## 5.5 Battery: Quick Answers to General Questions

A > How to charge battery?

The scale must be in turn on mode when using AC adaptor to charge battery.

B > How to tell the battery low?

When the battery indicating light  turns on, means battery low, must insert adapter and charge the storage battery right a way, otherwise battery will be easily damaged after longer drain time.

C > How to tell adaptor works ok and battery being charged properly?

With AC adaptor plugging in, Scale display should always stay on “0.000”; never go to sleeping mode; do not display "□".

D > How to tell battery been fully charged?

With AC adaptor plugging in, turn scale off and back on again. If scale charge light off and display always stay on “0.000”, do not go to sleeping mode after 20 seconds, means battery been fully charged.

E > What does it mean when display showing "□"?

Means scale is not being charged right now; and scale in sleeping mode to save power.

F > AC adaptor is plugged in, how come charge light do not turn on?

(1). If scale always stay on “0.000”, and do not go to sleeping mode, means

battery been fully charged, charge light will stay off;

(2). If scale display showing "□" after 20 second no use, please check charge connection and AC adaptor output voltage.

G > Does this scale work with direct power (9v adaptor)?

Yes, it does. Especially when the battery drained too low to be charged, just plug in adaptor when using scale.

## **6. User's Guide**

6.1 The scale should be flatly placed. Though the scale has good protection, it must be used under high non-vibration conduction.

6.2 While weighing, place the load in the center of the platter as far as possible.

6.3 Never use high corrosive solvents to clean it.

6.4 Do not weight overload, when the weighing exceeds the Max. Capacity +9e, it will display" FULL ".

6.5 Don't place load on the scale platter for long period of time. Never bump the platter with weighing load; otherwise the load cell would be damaged.

6.6 Don't disassemble it without authorization. Non-authorized manufacturer or non-professional staff' can't fix it without permission; contact our sales agent in local area.

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