

# EC200

# USER MANUAL



**ANYLOAD®**

[www.anyloadgroup.com](http://www.anyloadgroup.com)

# Contents

1. Safety Precautions .....	Page 2
2. Specifications .....	Page 3
3. Features .....	Page 3
4. Preparations .....	Page 3
5. Keypad Function .....	Page 4
6. Panel LED Indication .....	Page 5
7. Calibration .....	Page 6

## 1. SAFETY PRECAUTIONS

All safety messages are identified by the words "**WARNING**" and "**CAUTION**". These words mean the following:

<b>⚠WARNING</b>	Important information to alert you to a situation that might cause serious injury and damage to your property if instructions are not followed.
<b>⚠CAUTION</b>	Important information that tells how to prevent damage to the equipment.

When using the scale, the following safety precautions should always be followed.

### **⚠WARNING**

Use only the correct AC adaptor with the scale. Other adaptors may cause permanent electrical damage.

### **⚠CAUTION**

Avoid placing the scale in direct sunlight, this may cause discoloration or malfunction. Do not use scales on a soft surface, it may cause scales inaccurate.

**Avoid overloading the scale, as this may cause permanent damage and void your warranty – do not EVER exceed the maximum capacity of the scale.**

Keep the scale away from water – *this scale is not water resistant*. Shock, injury and electrical damage can occur if used in a wet environment!

## 2. SPECIFICATIONS

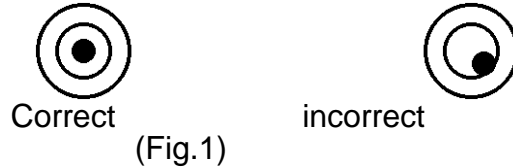
Model number	Capacity	Graduation	Platter Size
EC200	50 lb/2lb	0.001lb/0.00005lb	345X260/114x114mm
Package	Standard carton: 540 X 380 X 170mm		
	2 units in one box: 555 X 395 X 370mm		
Operating Temperature	0-40°C (32-104°F)		
Power Source	Rechargeable battery or AC/DC		
	Adapter 10-12V/500mA		

## 3. FEATURES

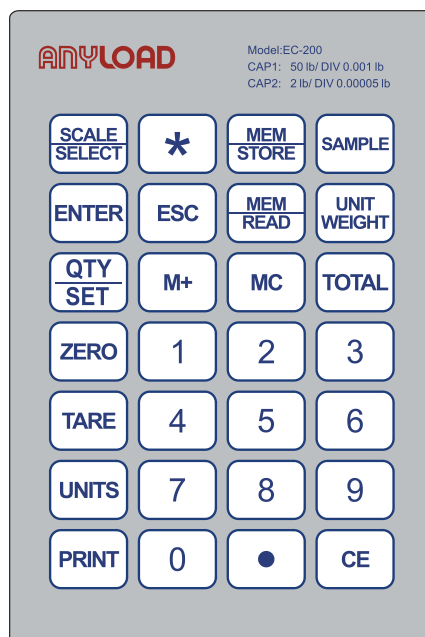
- Auto zero tracking
- Low battery indication
- 0.56" LED display
- 13.6" x 10.1"/ 4.48" x 4.48" heavy gage stainless steel pan
- Stability indication
- Auto calibration
- Auto backlight
- Unit switching - kg or lb
- Variable kg or lb reference weight calibration software
- 16 million internal resolution
- 55,000/50,000 and 50,000/40,000 display resolution
- 24 bit A/D processor
- High quality sensor used
- Die cast aluminum sub-support, bottom sensor support and steel thread footing

## 4. Preparation

Put the scale on a flat level and adjust the feet to make the level bubble align within the red circle (See Fig.1).



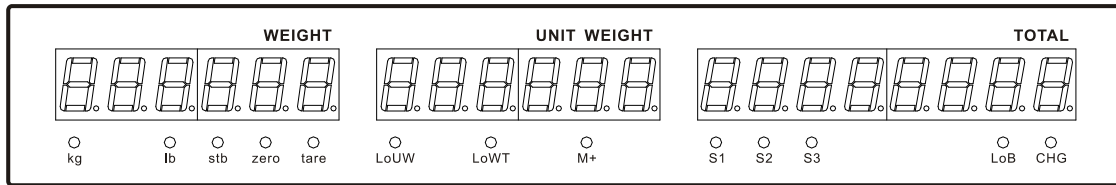
## 5. Keypad Function



- 5.1** <Scale/ select>: Press this button to select available counting scale among scale 1, scale 2 and scale 3. You only can choose to use one of them at the same time.  
SCALE 1: Main counting scale, the bigger platform one.  
SCALE 2: Smaller Counting scale offers more accurate data.  
SCALE 3: Extra connection platform. If you need the sample weight from SCALE 2, you can use this platform to count more by putting on more samples.
- 5.2** <Zero>: Press this button to reset the scale to zero (range<10% of full capacity). ZERO LED indicator will be on when it is activated.
- 5.3** <Tare>: Press this button to enable Auto-Tare function (range < 100% of full capacity). TARE LED indicator will be on when it is activated.
- 5.4** <Units>: In weighing mode, press this button to switch units among all the units. In counting mode, this button will be disabled.

- 5.5** <Printer>: Press this button to transmit data to a printer, a computer or other connected devices.
- 5.6** <Enter>: The function of this button is same as it's in a computer keyboard.
- 5.7** <MEM/STORE>: This button is a 'Sample weight memory button'.  
Press this button to memorize sample weight. Scale can memorize up to 16 sample weight data.
- 5.8** <MEM/READ>: This button is a 'Sample weight read button. Press this button to read the sample weight. Continuously press this button to select among 16 preset samples in memory.
- 5.9** [M+]: This memory key is used for accumulating counts; can store up to 99 inputs.
- 5.10** <MC>: This button is used to clear accumulated value.
- 5.11** <Sample>: This button is used to store the counted sample number on the platter into the scale memory.
- 5.12** <UNIT WEIGHT>: This button is used when setting the known unit weight into the scale during normal operating mode. 1/1000 kg or 1/1000 lb.
- 5.13** <QTY/SET>: This button is used for the alternation of changing normal counting and quantity check operation.
- 5.14** <NUMERIC (0-9) KEY> is used for setting numeric data for sample number, sample weight or limit the HI/LO settings.
- 5.15** <\*>: change the options when setting. This button is used to change division when the scale is in SCALE 3 Mode.
- 5.16** <TOTAL>: Display the accumulated total pieces on the scale.
- 5.17** <ESC>: Exit from the current menu.
- 5.18** <CE>: This button is used for canceling the numeric setting data or the previous unit weight data.

## 6. PANEL LED INDICATION



- 6.1 [kg]: kg indicator turns on when weight in kg.
- 6.2 [lb]: lb indicator turns on when weight in lb.
- 6.3 [stb]: stb indicator turns on when stable.
- 6.4 [zero]: zero indicator turns on when scale is in Zero position.
- 6.5 [tare]: tare INDICATOR turns on when this function is used.
- 6.6 [LoUW]: when sample unit weight is not heavy enough for accurate counting.
- 6.7 [LoWT]: when sample number is not enough for accurate counting.
- 6.8 [M+]: is used when accumulating the counting data; this data is memorized by pressing this key and can be accumulated up to 99 inputs.
- 6.9 [S1]: SCALE1 working state
- 6.10 [S2]: SCALE2 working state
- 6.11 [S3]: SCALE3 working state
- 6.12 [LoB]: low voltage, please charge battery.
- 6.13 [CHG]: charge status. Red LED turns on when charging. Red and green LED lights will be flashing alternately after the battery is fully charged.

## 7. CALIBRATION:

Calibration may be required if the scale is used in a different gravity location than initially calibrated.

### 7.1 Scale 1 Calibration

Turn on the scale, then press <1>, <3>, <1>, <1>, <Enter> when the scale examining itself.

#### 7.1.1 Menu Setting:

'WEIGHT display' shows SCALE1,

'UNIT WEIGHT display' shows CAL-0.

'TOTAL display' will show A/D value.

Then press <UNIT> button to select calibration units between kg and lb.

#### 7.1.2 Calibration:

Make sure nothing loaded on the bigger platform.

Press <Enter> to set zero point. (UNIT WEIGHT display will show CAL-0 flashing for a few seconds and then changes to XXXX to set the Calibration weight).

Press <CE> button and then press <NUMERIC (0-9) KEY> to set the calibration weight. Calibration weight will show on the UNIT WEIGHT display. Put the test weight on the bigger platform. Press <ENTER> button, the UNIT WEIGHT display will show a flashing XX then change to XX.XXX lb. Then the Calibration procedure complete.

### **7.1.3 Check Calibration:**

Reboot the scale. Place test weight on the scale and see the weight is correct or not. If not, please redo the above Calibration procedure.

## **7.2 Scale 2 Calibration:**

Turn on the scale, then press <1>, <3>, <1>, <2>, <Enter> when the scale examining itself.

### **7.2.1 Menu setting:**

'WEIGHT display' shows SCALE2,

'UNIT WEIGHT display' shows CAL-0.

'TOTAL display' will show A/D value.

Then press <UNIT> button to select calibration units between kg and lb.

### **7.2.2 Calibration:**

Make sure nothing loaded on the smaller platform.

Press <Enter> to set zero point. (UNIT WEIGHT display will show CAL-0 flashing for a few seconds and then changes to XXXX to set the Calibration weight).

Press <CE> button and then press <NUMERIC (0-9) KEY> to set the calibration weight. Calibration weight will show on the UNIT WEIGHT display. Put the test weight on the smaller platform. Press <ENTER> button, the UNIT WEIGHT display will show a flashing XX then change to XX.XXX lb. Then the Calibration procedure complete.

### **7.2.3 Check Calibration:**

Reboot the scale. Place test weight on the scale and see the weight is correct or not. If not, please redo the above Calibration procedure.

### 7.3 Scale 3 Calibration:

Connect the extra platform through DB9.

SCALE3 DB9		Load cell DB9
1 S-		1 S-
2 S+		2 S+
3/6 V+		3 V+
4 V-		4 V-
5 GND		5 GND
7~9 NC		6~9 NC

Turn on the scale, and then press <1>, <3>, <1>, <3>, <Enter> when the scale examining itself.

#### 7.3.1 Menu setting:

'WEIGHT display' shows SCALE3,  
'UNIT WEIGHT display' shows CAP XXXX.  
'TOTAL display' will show d=X.X.

Then press <UNIT> button to select calibration unit between kg and lb, Press <CE> button and then press 'number buttons' to set the max calibration value, press <\*> key to select division, press <Enter> key to confirm.

#### 7.3.2 Calibration:

Make sure nothing loaded on the external platform.

Press <Enter> to set zero point. (UNIT WEIGHT display will show CAL-0 flashing for a few seconds and then changes to XXXX to set the Calibration weight).

Press <CE> button and then press <NUMERIC (0-9) KEY> to set the calibration weight. Calibration weight will show on the UNIT WEIGHT display. Put the test weight on the external platform. Press <ENTER> button, the UNIT WEIGHT display will show a flashing XX then change to XX.XXX lb. Then the Calibration procedure complete.

#### 7.3.3 Check Calibration:

Reboot the scale. Place test weight on the scale and see the weight is correct or not. If not, please redo the above Calibration procedure.