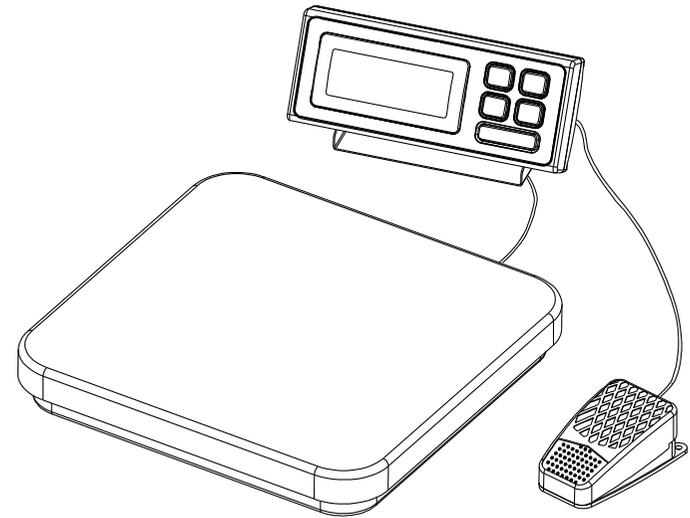


# PIZA SCALE

## INSTRUCTION MANUAL



PIZA M-1-0612

# SAFETY PRECAUTIONS

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

|          |  |
|----------|--|
| △WARNING | Important information to alert you to a situation that might cause serious injury and damage to your balance if instructions are not followed. |
| △CAUTION | Important information that tells how to prevent damage to equipment.   |

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

## △ WARNING

**Use only the AC adaptor supplied with the scale/balance. Other adaptor may cause damage.**

## △ CAUTION

Avoid using the balance under direct sun light. This may cause discoloration or malfunctions. Do not use scales onto the carpet base, it may cause scales inaccurate and need re-calibration.

Do not mix batteries. Replace all other batteries at the same time. Do not replace only a portion of the 6 batteries as this may cause a malfunction. If the scale is not to be used for a long period of time, remove all batteries from the battery compartment to avoid leakage, which may cause damage to this scale.

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 location!

# SPECIFICATIONS

| Model number          | Capacity   | Division |
|-----------------------|--|----------|
| PIZA 12               | 12lb   | 0.002lb  |
| PIZA 25               | 25lb   | 0.005lb  |
|                       |  |          |
| Platter size          | 320x310mm / 12.6 x 12.2 inch   |          |
| Net/Gross weight      | 5.6kg(12.4lb)/6.4kg(14.1lb)  |          |
| Packaging             | Individual carton: 510x375x140mm / 20x14.6x5.5 inch                  |          |
|                       | 4 Units in one box: master carton: 525x610x393mm / 20.6x24x15.5 inch |          |
| Operating Temperature | 0-40°C(32-104 F)   |          |
| Power source          | 6xAA Batteries or AC/DC Adaptor 9v/100mA(optional)                   |          |

# PARTS DESCRIPTIONS:

## ► .TOP



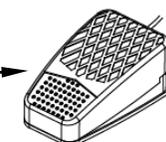
|        |      |
|--------|------|
| ON/OFF | HOLD |
| UNIT   | ZERO |
| PRINT  |      |

### -Display

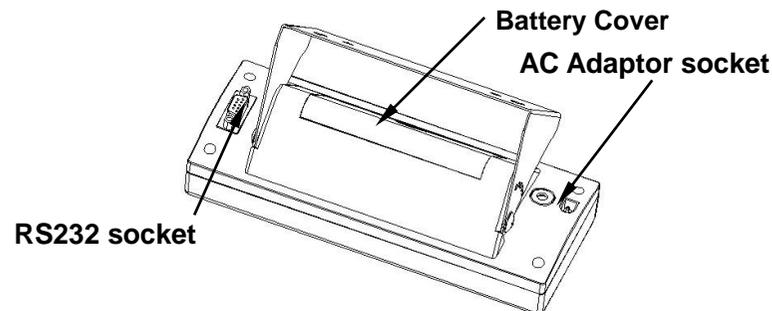
1. **ON/OFF:** Turn the scale power on/off.
2. **HOLD:** Press this key to store weight value.
3. **UNIT:** Select weighing units: kg/lb/oz/lb:oz.
4. **ZERO: (for TARE)**

This key is "Zero" feature if load is below 10% of full capacity or a negative value, and is tare function between 10% to full capacity. It has multiple tare function, but total weight of before and after Tare must be less than its full capacity.

5. **PRINT:** Press once and send weight information once.
6. **Foot switch:** With the same functions as ZERO key.



## ► .BOTTOM



## **FUNCTION SETTINGS**

1. Press and hold [HOLD] key then press [ON/OFF] key to turn on the scale, the display will show A-ON or A-OFF, press [ZERO] key to select on or off (ON means auto power off function activate, OFF means auto power off function inactivate).
2. Press [UNIT] key, the display will show L-ON or L-OFF, press [ZERO] key to select on or off (ON means auto backlight function activate, OFF means auto backlight function inactivate).
3. Press [UNIT] key, the display will show P-XX. Press ZERO key to select OFF, key, con and Stb. (OFF means RS232 function inactivates, KEY means that output the data by pressing [PRINT] key. Con means that output the data continually. Stb means that output the data when reading is stable)
4. Press [UNIT] key, the display will show J-ON or J-OFF, press ZERO key to select ON or OFF. (ON means showing zero when turn on the power, OFF means showing weight placed when turn on the power.)
5. Press [UNIT] key, the display will show F-Nor, F-PEA or F-Ani. Press ZERO key to select Nor or PEA or Ani. (Nor means normal weighting function activate. PEA means peak hold weighting function activate. Ani means animal weighting function activate).
6. Press [UNIT] key, the display will show N-dsp or N-Ind. Press ZERO key to select dsp or Ind. (dsp means it can display synchronously as a displayer for another indicator through the RS232 socket. Ind means it is only a indicator for the scale)
7. Press [UNIT] key, the display will show Kd 50 or Kd 100 or Kd 200 or Kd400. (press [ZERO] key to select animal scale anti-shock range among 50, 100, 200, 400)

## **Features:**

1. Display options: 5 digital LCD
2. Power: AC adapter 9V 100mA
3. Auto back light (selectable)
4. Auto off (selectable)
5. Operating Temperature: 0-40°C(32-104°F)
6. Operating Humidity: 25%~95%RH
7. 5 Keys: ON/OFF, ZERO, UNIT, HOLD, PRINT, and special foot switch for TARE function
  - ZERO** This key is "Zero" feature if load is below 10% of full capacity or a negative value
  - UNIT** Toggle among different units
  - ON/OFF** Turns the scale power On or Off
  - HOLD** Press this key to store weight value
  - PRINT** Press once and send weight information once.
8. Zero Range (0 to 10% of full capacity)
9. Tare Range (10% to full capacity)
10. Error Message indication:
  - Err-0** Overload
  - Err-5** Unstable when power on
  - Err-c** Calibration code is not enough or operation error.
  -  Low battery indication
11. Two calibration weight units (Optional): kg , lb
12. Open calibration capacity
13. Zero range:  $\pm 10\%$  of full capacity
14. Three modes : Normal mode / Setting mode /Internal Auto Calibration mode
15. RS232 function

## **When to calibrate**

**Note: Calibration is done in factory. Don't re-calibrate the Scale, unless it is not accurate.**

### **Calibration:**

- A. Press and hold **[ZERO]** key then press **[ON/OFF]**, the display will show "CAPU=", press twice **[HOLD]** key, the display will show CALU=, press **[UNIT]** key to select calibration unit kg or lb, it will have a small triangle on the right to indicate kg or lb, press **[HOLD]** key to confirm the selection.
- B. Press **[HOLD]** key again, the display will show **CAL**, press **[UNIT]** key to set calibration weight. Press **[UNIT]** key to move the flash digit to right, then press **[ZERO]** key to increase the flash digit, press **[HOLD]** key to confirm the selection ( the calibration weight should be more than **2/3** of full capacity), it will show CAL.
- C. Press **[PRINT]** , it will show CAL and AD value.
- D. Press **[UNIT]** key, the display will show the flash calibration weight, place the shown weight on the platform, press **[UNIT]** key when the stable indicator brightens up, the display will show "-----", then the AD value. Restart the scale and calibration has done.

Turn on the scale, place tested weight to check whether it is correct, if not, please repeat above steps.

8. Press **[UNIT]** key, the display will show Fd 0.5 or Fd 3 or Fd 5 or Fd 10. (press **[ZERO]** key to select animal scale filter range among 0.5, 3, 5, 10)
9. Press **[UNIT]** key, the display will show Ft 1 or Ft 2 or Ft 3 or Ft 4. (press **[ZERO]** key to select animal scale filter time among 1,2,3,4)

**\*\*\*Please kindly note that Kd,Fd,Ft works only in F-Ani mode .**

### **Peak Hold mode**

1. In **FUNCTION SETTING 5**, if you choose F-PEA, it means peak hold weighting function activated.
2. Before weighing, please press HOLD key .

### **HOLD FUNCTION**

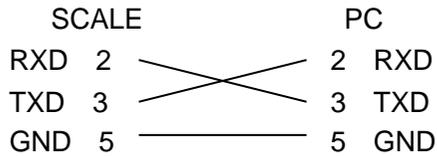
- 1) Place the item on the Scale platform.
- 2) Wait for the stable weight to be displayed.
- 3) Press the HOLD key. The ". " hold indicator will turn on.
- 4) Remove the item from the Scale platform, the item's weight reading will remain on the display. Now you can also select units by pressing **[UNIT]** key.
- 5) Quit HOLD function: Once an item is weighed and the hold function is enabled, you want to quit HOLD function, press the HOLD key again to cancel the "." hold indicator and return the Scale to weighing mode.

**interface:**

- 1: signal interface: (microphone socket)
  - Red-----→E+(positive source) / Yellow or Blue-----→S+(positive signal)
  - Black-----→E- (negative source) / White or Green-----→S- (negative signal)
  - No sign -----→GND
- 2: battery socket:
  - AC/DC 9V-----external positive, inner negative
- 3: RS232 interface: DB9

**RS232 TRANSMIT FUNCTION**

1. RS232 interface: DB9



2. RS232 Transmission Agreement:
  - Mode: Simplex Asynchronous Serial
  - Baud rate: 9600
  - Data Bit: 8
  - Parity Bit: NONE
  - Stop Bit: 1
  - Data Format: ASCII
3. Transmission Information Format: 20 Byte , blank=20H

**M= overload mode**

**W= normal weighing mode**

**: = weight information**

|     |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
|-----|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 1   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| W/M | : | ± |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | CR | LF |

5

**Weight information      Unit formation**

**Exempla:50kg**

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| W | : | + |   |   |   |   |   | 5 | 0  | .  | 0  | k  | g  |    |    |    |    | CR | LF |

