

OPERATION MANUAL



- MODEL:** 88910 THERMOMETER + PROBE + HOLDER
 88910P LONG PROBE + HOLDER

GENERAL SPECIFICATION

Model	88910 Waterproof Thermometer
Temp. Range (thermistor)	-40~250°C(-40~392°F)
Temp. Resolution	0.1°C(0.1°F)
Temp. Accuracy	+/-1°C(+/-1.8°F) for -10~110°C, others +/-2°C
Temp. Response time (T90)	1 minute typical
LCD update time	10 seconds
LCD size (mm, HxW)	45x96
Operating temp.	0~50°C
Operating RH%	Humidity < 80%
Storage temp.	-20~50°C
Storage RH%	Humidity < 90%
Meter Dimension(mm,LxWxT)	122x85x30
Meter Weight	~200g

1

Probe size	
Length	500mm
Diameter	5mm
Handle length	80mm
Cable length	1500mm
Probe Weight	~80g
Battery	AAA Alkaline 4pcs
Battery Life	One Year (continuously use, alkaline battery)
Material	
Meter	ABS
Probe	Stainless (SUS 304)
Handle	Nylon + Fiberglass
Cable	Teflon & Silicon
Standard Package	Meter, probe, probe holder, battery, manual, plain box

INTRODUCTION

Thank you for purchasing this waterproof & super large LCD digital thermometer. Please read this manual thoroughly before operation.

This waterproof thermometer is designed with following features:

- ▲The meter and probe (in plug-in status) is waterproof IP67.
- IP67: Protected against the effects of temporary water immersion
- ▲Super large LCD display for easy reading.
- ▲Temperature unit C/F switchable.

To use this thermometer correctly, please be aware of the following:

- Over range measurement might damage the meter and probe.
- Away from direct sun or high heat exposure to avoid plastic housing deformed and meter disorder.
- Please handle the probe carefully after high heat measurement.
- Avoid electronic interference environment to ensure a steady measurement.
- Clean the meter and probe via water only.
- Remove the batteries before long-term storage.


2

MATERIAL SUPPLY

The standard package of this instrument includes:

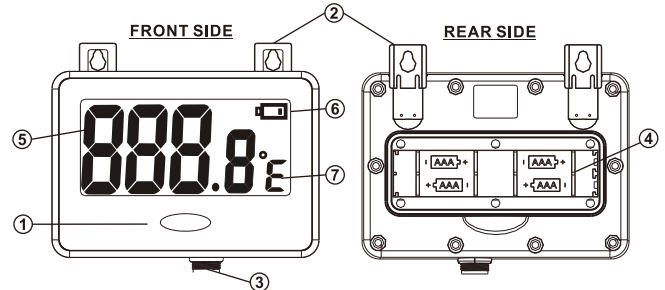
- ▲Meter, 1pc
- ▲Temperature probe, 1pc
- ▲Stainless probe holder, 1pc
- ▲AAA alkaline battery, 4pcs
- ▲Manual, 1pc
- ▲Plain box, 2 (one meter, one probe)

POWER SUPPLY

The meter is powered by 4pcs AAA alkaline batteries. Please insert the batteries into battery compartment with correct polarity and good contact. When battery low icon "  " appears on LCD, please replace batteries to get correct reading.

To make sure a watertight battery cover, the 6 screws must be tighten with uniform force. If using electric screwdriver, the force can be set at around 0.4[N.m].

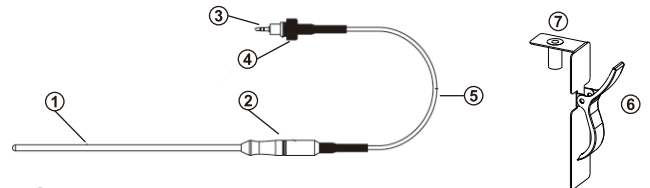
METER & LCD



3

- ① ON/OFF button. Temperature unit change button.
- ② Wall mount hanger
- ③ Probe socket
- ④ Battery compartment
- ⑤ Probe temperature display
- ⑥ Low battery icon
- ⑦ Temperature unit, °C or °F

PROBE & HOLDER

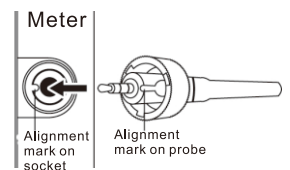


- ① Stainless steel temperature probe
- ② Temperature probe handle
- ③ Temperature probe plug (connect to meter)
- ④ Temperature probe plug screw nut
- ⑤ Temperature probe cable
- ⑥ Stainless steel temperature probe holder
- ⑦ Temperature probe fixer

OPERATION

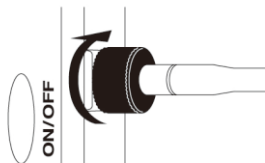
INSTALLATION

1. Plug the probe into probe socket on the meter. An alignment mark is made on probe and socket for easy installation.



4

2. Turn the plug screw nut tight in clockwise direction to ensure a watertight condition.



3. For long term use, pull out the wall mount hangers from meter and hang the meter on the wall properly.

4. For long term use, plug the temperature probe into holder fixer. Clip the holder to the edge of the boiler.

POWER ON/OFF & UNIT CHANGE

1. Power on the meter by pressing "ON/OFF" key. When the LCD in on, the meter is now in measuring status. The measured value is updated every 10 seconds.

2. To change the default temperature unit, turn off the meter first. Press "ON/OFF" more than 5 seconds until C & F interchangeably switch on LCD. Release the "ON/OFF" key when your desired unit is displayed. The meter will be powered on and the unit setting is confirmed.

3. Put the temperature probe into the measuring target. Wait for seconds to get stable reading.

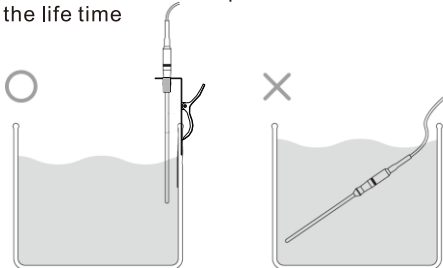
4. After using, press "ON/OFF" key to turn off the meter.

5

PROBE OPERATION

To correctly use this probe can ensure you an accurate reading and extend the probe life time.

1. DO NOT immerse the probe and meter into water to extend the life time

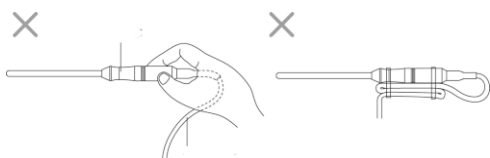


2. Suggest not to hold the probe handle while measuring high temperature. Better to use probe holder for safety.

3. DO NOT make the probe front tip contact with boiler bottom or wall. Higher temperature on boiler bottom or wall might damage the probe and bring you inaccurate reading.

4. DO NOT twist or fold the probe cable to avoid the cable damage.

5. DO NOT hold the end the probe handle and fold the cable with force.



6

STORAGE & MAINTENANCE

This meter and probe can be washed via clean water. Please following below reminders :

1. Suggest not to immerse the whole unit and probe into water.
2. DO NOT clean the meter and probe via any chemical or detergent.
3. Use clean and dry clothes to clean up the meter and probe after wash. DO NOT put the meter and probe into dryer.

TROUBLESHOOTING

This meter will display the error code when in abnormal status. Please following below instruction to release the error code.

Error code: E02

Root cause: Probe is not contacted well with meter or measured value is lower than range limit.

Solution: a. Make sure the probe is well contact with meter
b. Using the probe in defined temp. range only

If E02 still appears after above procedures, the probe might be damaged already. Call your local dealer for a new purchase or warranty replacement.

Error code: E03

Root cause: Probe is not contacted well with meter or measured value is higher than range limit.

Solution: a. Make sure the probe is well contact with meter
b. Using the probe in defined temp. range only

If E03 still appears after above procedures, the probe might be damaged already. Call your local dealer for a new purchase or warranty replacement.

7

Error code: E31

Root cause: Meter internal circuit error

Solution: Stop using this meter and call your local dealer for a new purchase or warranty replacement.

WARRANTY

The meter is warranted to be free from defects in material and workmanship for a period of one years from the date of purchase. This warranty covers normal operation and does not cover battery, misuse, abuse, alteration, tampering, neglect, improper maintenance or damage resulting from leaking batteries.

Proof of purchase is required for warranty repairs. Warranty is void if the meter has been opened .

RETURN AUTHORIZATION

Authorization must be obtained from the supplier before returning items for any reason. When requiring a RA (Return Authorization), please include data regarding the defective reason, the meters are returned along with good packing to prevent any damage in shipment and insured against possible damage or loss.

OTHER RELATED PRODUCTS

Other thermometer:

a.8891: Waterproof Thermometer

RTD thermometer

a.8821 / 8822: IP67 High accuracy RTD thermometer

K thermometer

a.8801: Single K thermometer

b.8803: Dual K thermometer

c.8811: Waterproof single K thermometer

Multiple thermocouple thermometer

a.8851 / 8852: Single / Dual K-J-T thermometer

b.8855 / 8856: Single / Dual K-J-T-R-S-E thermometer

8