

# TEMPERATURE METER

## USER'S MANUAL



## 1. DESCRIPTION

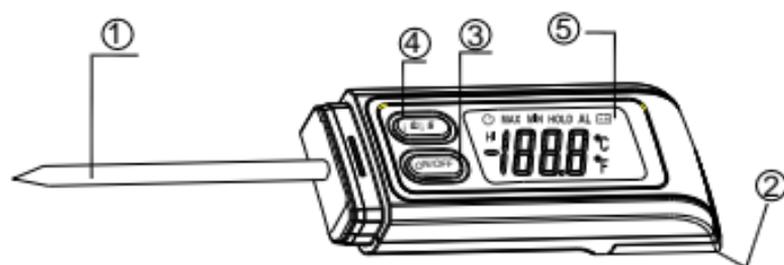
- This digital temperature meter is used to accurately measure internal temperature and ambient temperature.
- This meter performs  $-50^{\circ}\text{C}$ ~ $270^{\circ}\text{C}$  ( $-58^{\circ}\text{F}$ ~ $518^{\circ}\text{F}$ ) temperature measurement.
- This meter has function of auto power off.
- To get the best service from this meter, please read this user's manual carefully and observe the detailed safety precautions strictly.

## 2. SPECIFICATIONS

- Temperature measure range:  $-50.0$  to  $270^{\circ}\text{C}$   
 $-58.0$  to  $518^{\circ}\text{F}$
- Resolution:  $0.1^{\circ}\text{C}$  ( $-50^{\circ}\text{C}$ ~ $200^{\circ}\text{C}$ ) ;  $1^{\circ}\text{C}$  ( $200^{\circ}\text{C}$ ~ $270^{\circ}\text{C}$ )
- Accuracy:  $-50^{\circ}\text{C}$ ~  $-20^{\circ}\text{C}$ :  $\pm(\text{reading} \times 1.5\% + 1^{\circ}\text{C})$   
 $-20^{\circ}\text{C}$ ~ $200^{\circ}\text{C}$ :  $\pm(\text{reading} \times 1.0\% + 1^{\circ}\text{C})$   
 $200^{\circ}\text{C}$ ~ $270^{\circ}\text{C}$ :  $\pm(\text{reading} \times 2.0\% + 4^{\circ}\text{C})$
- Measurement Period: 1 time/2 secs

- Display: 1/3 duty, 1/2 bias 3x13 LCD
- Auto power off time: 8 min
- Low Battery Indication: 'E+' displayed
- Current:  $\leq 1 \mu\text{A}$ (sleep mode)  
 $\leq 60 \mu\text{A}$ (normal operation)
- Operating temperature:  $0\sim 50^{\circ}\text{C}$ ,  $<80\% \text{RH}$   
 Storage temperature:  $-10\sim 60^{\circ}\text{C}$ ,  $<70\% \text{RH}$
- Battery:  $1.5\text{V} \times 2$
- Dimensions:  $181(\text{L}) \times 35(\text{W}) \times 20(\text{H}) \text{mm}$
- Weight: 65g. Approx. (battery included)

### 3. NAMES OF COMPONENTS



- |              |                  |                 |
|--------------|------------------|-----------------|
| 1. Sensor    | 2. Battery cover | 3. "ON/OFF" key |
| 4. "C/F" key | 5. LCD display   |                 |

#### **4. OPERATING INSTRUCTIONS**

1 .Press the "ON/OFF" key during power off status will turn on the system (Turn on).

Press the "ON/OFF" key during power on status will turn off the system (Turn off).

2. All of symbols will display in LCD for two seconds after power on, then the current temperature will be displayed.

3. The temperature unit °C is preset after turn on.

Press the "°C/°F" key during measurement can select or switch the temperature unit °C and °F (°C/°F switches in a cycle ).

Unit Conversion:  $^{\circ}\text{C}=(5/9)*(^{\circ}\text{F}-32)$  ;  $^{\circ}\text{F}=(9/5)*^{\circ}\text{C}+32$ .

4. To measure the internal temperature of an object, extend the probe.

Insert the probe at least 12mm(1/2") into the target, then the meter will measure the core temperature automatically.

The probe comes to equilibrium with the object being measured until the LCD reading is almost steady.

**When the highest accuracy is required, it is advisable to keep on measuring for a moment after the reading is almost steady to insure the probe has fully stabilized and reached equilibrium with the object.**

**NOTE:** The probe tip must be sterilized before and between measurements of food samples to avoid cross



When the timer is set 8 min., it will enter into Sleep status if there is no action to any key in 8 min. after power on, The set time will be re-calculated if any key is pressed.

Press “C/F” key to power on will cancel the auto power off function.

## 5. **CLEANING INSTRUCTIONS**

The meter may be wiped down with a wet sponge or cloth using a mild water based detergent or anti-bacterial soap and rinsed under a gentle stream of cold water.

### **NOTE:**

This unit is not designed for complete submersion or washing in automated dishwashers.

## 6. **BATTERY REPLACEMENT**

Use the following procedure:

When the battery voltage drop below proper operation range the  symbol will appear on the LCD display and the battery need to be replaced.

- Press the battery cover and towards arrowhead direction to open the battery cover.
- Replace the battery with two new 1.5V batteries (AG13).
- Replace the battery cover.