

# OPERATING INSTRUCTIONS

## Mini Infrared Thermometer Model 8875



8875 is the latest compact size infrared thermometer which features its neat appearance and simple operation. This model has the following characteristics:

- ◆ Precise non-contact measurement
- ◆ Adjustable Emissivity
- ◆ Switchable in °F and °C temperature units
- ◆ Automatic data hold
- ◆ Laser target pointer
- ◆ Backlight

1

### CAUTION

- ! Use with extreme caution when the laser beam is turned on. The potential damage it could cause is for hundreds feet away.
- ! Do not point the laser toward the eyes or face of a person or animal.
- ! Be careful not to point the beam on a reflective surface, and it's forbidden to beam on any gas which explodes.

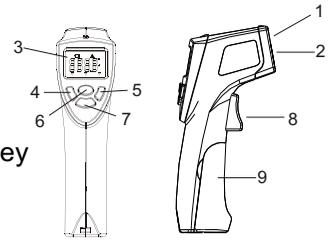
### SPECIFICATIONS

Temperature range: -40~500°C  
Distance spot ratio: D:S= 10:1  
Resolution: 0.1°C/0.1°F (-40~100°C(212°F))  
Accuracy: +/- 2% or 2°C (-20~200°C)  
                  +/- 3% or 3°C (<-20°C or >200°C)  
Emissivity: 0.30~1.00 adjustable  
Sample rate: Approx. 1 sec.  
Power off : 10 seconds non-operation  
Power supply : 9V battery  
Power current: Approx. 12 mA DC  
Weight: 200g  
Size: 160 x 50 x 32.5 mm  
Operating environ.: 0~50°C(32~122°F) Max. 80%RH.

2

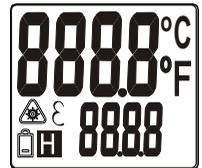
### FRONT PANEL DESCRIPTION

1. Laser pointer beam
2. IR sensor
3. LCD Display
4. °C/°F select/▼ key
5. Backlight select/▲ key
6. Mode
7. Laser key
8. Trigger (measure)
9. Battery compartment



### INDICATOR

1. °C/°F: Temperature unit
2. ε : Emissivity indicator
3. H : Data hold
4. ⚠ : Laser mark
5. 🔋 : Low battery indicator
6. Main display: Measured reading
7. Minor display: Emissivity value



3

### MEASUREMENT OPERATION

#### 1. Power ON/OFF

The meter automatically powers on when the trigger is pulled. Pull the trigger to take a measurement and read the temperature display on the LCD. The meter powers off automatically in approximately 10 seconds after the trigger is released.

#### 2. Select Temperature units (C/F)

Press "°F/°C▼" key, users can select the temperature units (°C or °F) as preferred.

#### 3. Data Hold

The meter automatically holds the last temperature reading on the LCD for 10 seconds after the trigger is released.

#### 4. Backlight LCD

To activate backlight, press the trigger to turn on the meter and then press "▲☀" key. Press the key again to turn off the backlight.

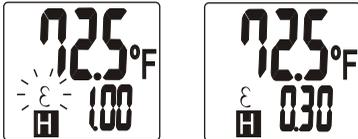
4

## 5. Laser Pointer

To turn on the laser pointer, press "LASER" key while the trigger is pulled. Press the key again to turn off the laser pointer. (Trigger and LASER keys need to be pressed simultaneously)

## 6. Adjust the emissivity

When the meter is power on, press "MODE" key to adjust the emissivity. A blinking "ε" will show on the screen and the value on the minor display becomes adjustable ranging from 0.30 to 1.0. Press "▲/°F" to increase the value, and press "°F/°C▼" to decrease it.



To save the adjusted emissivity value, press "MODE" key again. Then "ε" indicator stops blinking and the meter returns to measurement mode.

**NOTE:** Always enter the correct surface emissivity of substances to be measured to ensure better accuracy in measurement.

5

## OPERATION NOTES

1. Hold the meter by its handle and point the IR sensor toward the object to be measured.
2. Make sure the measuring targets completely fill in the spot diameter sensed by the infrared sensor, and the measuring distance to the spot is in 10:1 ratio.
3. The meter automatically compensates for temperature deviations from the ambience. It might take up to 30 minutes to adjust to wide ambient temperature changes. When low temperature measurements followed a high temperature measurement, several minutes are required to cool the sensor before next measurements.

## BATTERY REPLACEMENT

Low battery indicator on the screen starts flashing when the battery voltage falls under critical range (6.5 to 7.5 V). Though reliable readings can still be given for several hours from the first flash, it is suggested to always have fresh batteries to ensure the accuracy. Open the battery compartment, users can replace the battery easily.

6

## TROUBLESHOOTING

### ? **Meter does not turn on**

Check battery voltage and/or replace with fresh battery if necessary. Check whether it's the 1 sec. delay which is allowed between data display and measurement(Trigger pulled).

### ? **Data flashing or laser comes on but no data appears**

Check battery voltage and replace with new battery.

### ? **Dashes appear on the screen**

Check extreme temperature. Measure surrounding area to see if the target exceeds the limit.

## MAINTENANCE

### **Case cleaning :**

Use a damp cloth to clean the exterior housing carefully. Make sure no water or soap goes inside the meter or on the infrared lens.

### **Lens cleaning :**

It's suggested to clean the lens after a certain time of operation. Use low pressure compressed air to remove particles on the lens. Or gently wipe the lens with soft damp swab if contamination can't be removed by air. Don't use solvents to clean the lens.

7

## WARRANTY

The meter is warranted to be free from defects in material and workmanship for one year. The warranty covers normal operation and does not cover battery, misuse, abuse, alteration, 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 to be returned along with good packing to prevent any damage in shipment and insured against possible damage or loss.

8