

# POCKET Infrared Thermometer

## Operating Instructions

Simply aim the thermometer at the target and press the **SCAN** button to display the surface temperature. The distance to target ratio is 1 : 1, therefore the thermometer should be positioned as close to the target as possible.

### °F OR °C MODE

To change from °F to °C or from °C to °F, turn the instrument on by pressing the **SCAN** button, then press the **MODE** button four times, the °F or °C symbol will flash, press the **SCAN** button to change the scale.

### MINIMUM OR MAXIMUM MODE

The thermometer can be set to display only the minimum or maximum temperature reading during any measurement period. Turn the instrument on by pressing the **SCAN** button, press the **MODE** button once for minimum or twice for maximum function. The **MIN** or **MAX** icon will flash, then press the **SCAN** button to confirm the minimum or maximum mode. Keep pressing the **SCAN** button; the thermometer will display the minimum or maximum reading only.

### LOCK MODE

The lock mode is particularly useful for continuous monitoring of temperatures. To utilize the lock mode, turn the instrument on by pressing the **SCAN** button, then press the **MODE** button three times for the lock mode function. The **LOCK** icon will flash, press the **SCAN** button to confirm the lock measurement mode. The LCD screen will continuously display the temperature for up to 60 minutes or until the **SCAN** button is pressed.

### EMISSIVITY

The thermometer is supplied with a default emissivity of 0.95. The emissivity can be changed from 0.05 (5E) to 1 (100E). Changes should only be carried out by experienced personnel. To change the emissivity, turn the instrument on by pressing the **SCAN** button, press the **MODE** button five times for emissivity function. The 95E will flash on the LCD screen, then press the **SCAN** button to adjust the emissivity value, press the **MODE** button again to exit the set up screen. For information relating to the emissivity of specific materials, please contact the nearest retailer.



**Note: Non-contact infrared thermometers are not recommended for use in measuring the temperature of shiny or polished metals.**

### LCD ERROR MESSAGES

The thermometer incorporates visual diagnostic messages as follows:



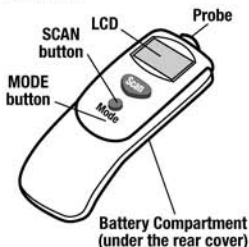
**HI** or **LO** is displayed when the temperature being measured is outside of the range of the instrument. **HI** when higher than 428°F (220°C) and **LO** when lower than -67°F (-55°C).



**Er2** is displayed when the thermometer is exposed to rapid changes in the ambient temperature. **Er3** is displayed when the ambient temperature of the thermometer exceeds 32° or 122°F (0° or 50°C). In both cases you should allow plenty of time (minimum 30 minutes) for the thermometer to stabilize to room temperature 32° to 104°F (0° to 40°C).



For all other error messages it is necessary to reset the thermometer. To reset, turn the unit off. Remove the batteries, wait 30 seconds, insert new batteries.



### BATTERY REPLACEMENT (Remember to power off the unit before replacing the battery).

Remove the battery cover, flip the battery out with a small screwdriver, insert the new battery under the metal hook on the left side and press the right side of the battery until you hear a click sound, replace the battery cover.



BATTERY OK



BATTERY LOW



BATTERY EXHAUSTED



When the **LOW BATTERY** icon displays, the battery should be replaced. (CR2032 lithium cell battery)



A malfunction may occur if the power is on when the battery is replaced. If a malfunction occurs, restart the device. Keep the battery away from children.

### STORAGE & CLEANING

The probe is the most delicate part of the thermometer and should be kept clean at all times. Care should be taken when cleaning the lens using only a soft cloth or cotton swab with water or medical alcohol. Allow the lens to dry completely before using. Do not submerge any part of the thermometer. Store at room temperature.

### SPECIFICATIONS

Range	-67° to 428°F (-55° to 220°C)
Operating Range	14° to 122°F (-10° to 50°C)
Resolution	0.1°F (0.1°C) switchable
Response Time	1 second
Accuracy	-67° to 428°F ±2% of reading or 4.0°F whichever is greater (-33° to 220°C) ±2% of reading or 2.0°C whichever is greater
Distance : Spot	1 : 1 optics ratio
Emissivity Range	0.95 default – adjustable 0.05 to 1 step .01
Battery Life	40 hr (auto power off after 15 seconds)
Power Supply	CR2032 Lithium Cell Battery (1pc)
Display	LCD
Dimensions	4.5 x 1.5 x 1.4" (113.0 x 39.4 x 36.5mm)
Weight	1.5 oz (40 grams) including battery