

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:



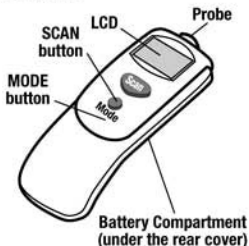
HI or **LO** is displayed when the temperature being measured is outside of the range of the instrument. **HI** when higher than 428°F (220°C) and **LO** when lower than -67°F (-55°C).



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

