# User's Manual
# Pocket InfraRed Thermometer
# Model 59114

## Introduction

This device allows the user to take non-contact temperature measurements simply by pointing the meter and pressing a button. This meter, with proper care, will provide years of safe reliable service.

## Specifications

### General Specifications

| | |
|---|---|
| Display | 3 ½ -digit (2000 count) LCD display |
| Measurement Range | Temperature: -30 to270°C / --22 to 518°F |
| Power off | Automatic shutoff after approx.7- 8 seconds |
| Laser power | Laser power less than 1mW (red) |
| Operating Temperature | 32 to 122°F (0 to 50°C) |
| Operating Humidity | Max. 80% RH |
| Power Supply | 2 x AAA battery |
| Weight | 81g |
| Size | 97 x 57 x 29 mm |

### Range Specifications

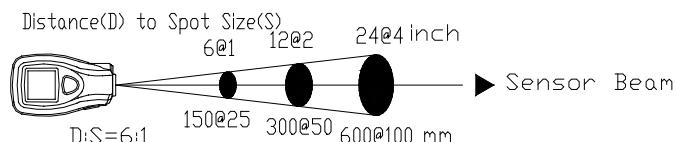| | | |
|---|---|---|
| Ranges/Resolution | -30 to 270°C/ -22 to 518°F | 1°C /1°F |
| Accuracy | -30 to 270°C/ -22 to 518°F: ± (2.5% of reading + 2°C/ 4ºF) | |
| Accuracy notes | 1. Accuracy is given at 18 ºC to 28 ºC (64 ºF to 82 ºF), less than 80 % RH<br>2. Accuracy specified for emissivity of 0.95 | |
| Emissivity settings | 0.95 fixed | |
| Distance Factor | Distance to Target Ratio 6:1 | |

## IR Measurements

### Taking Measurements

Point the meter toward the object being measured, then press and hold the MEASURE button. The meter and Laser will turn ON and take a reading. Read the measured temperature on the LCD. The meter and Laser turn off automatically approximately 8 seconds after the MEASURE button is released.

The object being measured should be larger than the spot size as illustrated at right.

**Measurement considerations:** If the surface of an object to be measured is covered with frost, dust or other materials, surface cleaning must be performed before accurate measurements can be made. **High Reflective Surfaces:** If the surface of an object to be measured is highly reflective, apply masking tape or apply flat black paint to the surface since black paint has a fixed emissivity value.

### Distance to Target



## Backlighting function

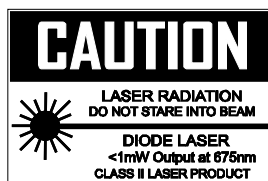Press the ☀ key to turn on the LCD backlighting function. The backlight turns off automatically approximately 8 seconds after the BACKLIGHT button is released.

## Displaying °F or °C

Open the battery compartment, move the slide switch located in the opening beneath the outermost battery

## Battery Replacement

A flashing display indicates that the AAA batteries which power the meter have weakened. Open the battery compartment on the rear of the meter, replace the batteries and close the compartment.



**CAUTION: Do not directly view or direct the laser pointer at an eye.** Low power visible lasers do not normally present a hazard, but may present some potential for hazard if viewed directly for extended periods of time.

## FRONT PANEL DESCIPTION

1. Laser pointer beam
2. Backlight key
3. LCD display
4. Hand Strap
5. IR sensor
6. Measuring & Laser key
7. °C or °F select key (need open Battery compartment)
8. Battery compartment