

## User's Manual

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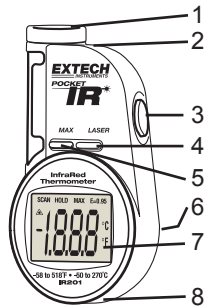
# Pocket InfraRed Thermometer Model IR201A

## Introduction

Congratulations on your purchase of Extech's IR201A Pocket InfraRed Thermometer. This device is used 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.

## Description

- 1 Infrared sensor
- 2 Laser Pointer
- 3 Measurement button
- 4 Laser button
- 5 Max/Set button
- 6 Battery compartment (rear)
- 7 LCD display
- 8 Lanyard attachment point



## Setup

The Setup mode allows for setting: Max or Min display, °C or °F display, Emissivity value, Lock continuous mode, High alarm limit and Alarm On/Off. Enter the Setup mode by taking a measurement then press the MAX button to step through and adjust the features. Each press of the MAX button advances to the next feature.

- 1 Press the Measure button to turn the meter on.
- 2 Press the MAX button to step to the Max/Min selection. Press the LASER button to set either MIN or MAX (blinking) and then press the Measure button to confirm the selection.
- 3 Press the MAX button to step to the C/F selection. Press the LASER button to set either C or F (blinking) and then press the Measure button to confirm the selection.
- 4 Press the MAX button to step to the Ems (emissivity) increase ▲ selection. Press the LASER button to increase the  $\epsilon$  (blinking) value and then press the Measure button to confirm the selection.
- 5 Press the MAX button to step to the Ems (emissivity) decrease ▼ selection. Press the LASER button to decrease the  $\epsilon$  (blinking) value and then press the Measure button to confirm the selection.
- 6 Press the MAX button to step to the LOCK selection. Press the LASER button to set LOCK On and then Press & Hold the Measure button for two seconds to begin continuous measurements. Press the LASER button to cancel the LOCK mode.
- 7 Press the MAX button to step to the HI (High Limit) increase ▲ selection. Press the LASER button to increase the value and then press the Measure button to confirm the selection.
- 8 Press the MAX button to step to the HI (High Limit) decrease ▼ selection. Press the LASER button to decrease the value and then press the Measure button to confirm the selection.
- 9 Press the MAX button to step to the Alarm On/Off selection. Press the LASER button to set either ON or OFF and then press the Measure button to confirm the selection.

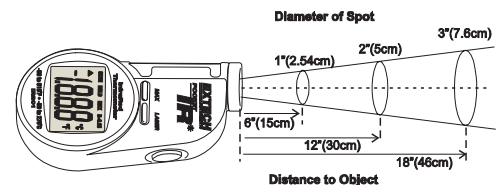


## IR Measurements

1. Point the meter toward the surface to be measured
2. Press and hold the MEASURE button. The meter will turn ON, "SCAN" will blink and the measured temperature will be displayed.
3. Release the MEASURE button and the last reading will be held (HOLD will appear) in the display for approximately 6 second and then the meter will turn off.
4. In the measure mode, press the LASER button to turn the laser pointer on or off.
5. Press the MAX button to display and hold the highest reading. The display will update with each higher reading.

## Measurement considerations:

- The thermometer must be acclimated to ambient temperature for accurate measurements. Allow approximately 30 minutes acclimation time when the storage area and use area have a large temperature differential.
- If known, adjust the emissivity value to match the emissivity of the surface being measured. If unknown, use 0.95.
- The surface measured should be cleaned of frost, dust or other materials before accurate measurements can be made.
- Recommended measuring distance is 2" to 36" (5cm to 91cm)
- Apply black tape or paint to highly reflective surfaces to increase the emissivity and improve the accuracy of the measurement.
- The object being measured should be larger than the spot size as illustrated in the distance to spot diagram.



## Battery Replacement

The battery icon appears when the batteries need replacing. Open the battery compartment on the rear of the meter, replace the batteries and close the compartment.



You, as the end user, are legally bound (**EU Battery ordinance**) to return all used batteries, **disposal in the household garbage is prohibited!** You can dispose of your used batteries at collection points in your community or wherever batteries are sold!

**Disposal:** Follow the valid legal stipulations in respect of the disposal of the device at the end of its lifecycle

## Specifications

Display	3 1/2 -digit (2000 count) LCD display
Power off	Automatic shutoff after approx. 8 seconds
Laser power	Laser power less than 1mW (red)
Distance to Target Ratio	6:1
Emissivity settings	0.10 to 1.0 adjustable
Operating Temperature	0 to 50°C (32 to 122°F)
Operating Humidity	Max. 80% RH
Power Supply	2 x AAA battery
Weight	76g / 2.7 oz.
Size	94 x 51 x 25 mm (3.7 x 2 x 1")

## Range Specifications

Ranges(Resolution)	-30 to 270°C / -22 to 518°F (0.1°C/F)
Accuracy	± (2.5% of reading + 2°C or 4°F)

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more info for Extech IR201

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