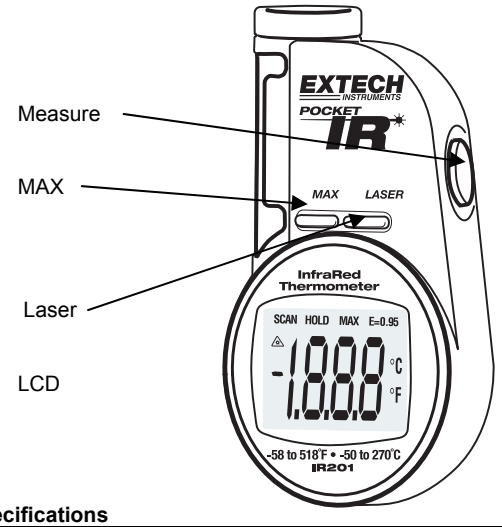
User's Manual

EXTECH INSTRUMENTS

Pocket InfraRed Thermometer
Model IR201



Introduction

Congratulations on your purchase of Extech's IR201 Pocket InfraRed Thermometer. 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
Power off	Automatic shutoff after approx. 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	2.7 oz. / 76g
Size	3.7 x 2 x 1" (94 x 51 x 25 mm)

Range Specifications

Ranges(Resolution)	-58 to 518°F/ -50 to 270°C (1°F/1°C)
Accuracy	-4° to 518°F / -20 to 270°C: ± (2.5% of reading + 3°F or 2°C) -58° to -4°F / -50 to -20°C: : ± 10°F or 5°C
Recommended measuring distance	2" to 36" / 5cm to 91cm
Emissivity settings	0.95 fixed
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 will turn ON and take a reading. Read the measured temperature on the LCD. The meter turns off automatically approximately 8 seconds after the MEASURE button is released.

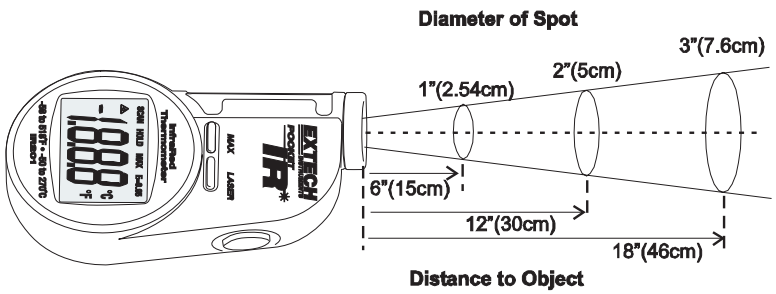
While pressing the MEASURE button:

Press the LASER button to turn on the laser pointer.

Press the MAX button to display and hold the highest reading. The display will update with each higher reading.

The object being measured should be larger than the spot size as illustrated in the distance to spot diagram.

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 with a very low emissivity value, apply masking tape or apply flat black paint to the surface to raise to improve the accuracy of the measurement.



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.

Warranty

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 for authorization. A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit.
This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.



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