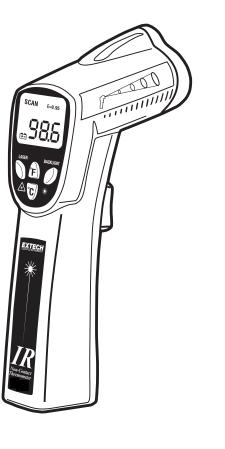


High Temperature InfraRed Thermometer

with Laser Pointer

MODEL 42530



Introduction

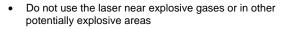
Congratulations on your purchase of the Model 42530 IR Thermometer. This thermometer makes non-contact (infrared) temperature measurements at the touch of a button. The built-in laser pointer increases target accuracy while the backlit LCD and handy push-buttons combine for convenient, ergonomic operation. Proper use and care of this meter will provide years of reliable service.

Warranty

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workn if the two service of the two services of two services

Safety

- Use extreme caution when the laser pointer beam is on
- Do not point the beam toward anyone's eye or allow the beam to strike the eye from a reflective surface





Specifications

Infrared Thermometer Specifications

Range / Resolution	-58 to 1000°F (-50 to 538°C) 0.1°C/F<200 / 1°C/F> 200
Accuracy	\pm 2% of reading or \pm 4°F (2°C) whichever is greater.
	Note: Accuracy is specified for the following ambient temperature range: 64 to 82°F (18 to 28°C)
Emissivity	0.95 fixed value
Field of View	D/S = Approx. 8:1 ratio (D = distance, S = spot)
Laser power	Less than 1mW
Spectral response	6 to 14 μm (wavelength)

General Specifications

Display	31/2 digit backlit LCD display with function indicators
Display rate	1 second approx.
Operating Temperature	32°F to 122°F (0°C to 50°C)
Operating Humidity	Max. 80% RH
Power Supply	9V battery
Automatic Power Off	Meter shuts off automatically after 7 seconds
Weight	6.35 oz. / 180g
Size	8.3 x 3.5 x 1.5" (211 x 89 x 38mm)

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Meter Description

- 1. 查询:42530"供应商
- 2. Function Buttons
- 3. Handle Grip
- 4. Laser Pointer
- 5. IR Sensor
- 6. Measurement Trigger
- 7. Battery Compartment



Operating Instructions

- 1. Hold the meter by its **Handle Grip** and point it toward the surface to be measured.
- 2. Pull and hold the red **Trigger** to turn the meter on and begin testing. The display will light if the battery is good. Replace the battery if the display does not light.
- While measuring, the SCAN display icon will appear in the upper left hand corner of the LCD.
- 4. While continuing to pull the Trigger:
 - a. Push the red **Laser** button to turn on the laser pointer. When the laser is on the laser icon (a), will appear on the LCD over the temperature. Aim the red beam approximately a half inch above the point of test (pressing the Laser button again turns the laser off).
 - b. Select the temperature units (°C or °F) using the blue °C and °F buttons.
 - c. Push the yellow **Backlight** key to turn on the LCD backlighting function.
- 5. Release the Trigger and the HOLD display icon will appear on the LCD indicating that the reading is being held.
- 6. The meter will automatically power down after approximately 7 seconds after the trigger is released.

Overrange Indicator

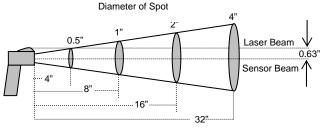
If the temperature being measured exceeds 1000°F (538°C), the thermometer will emit an audible warning and the OVER icon will be displayed on the LCD.

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Field of View

The meter's field of view is 8:1, meaning that if the meter is 8 inches from the target, the diameter of the object where the st must be at least 1 inch. Other distances are shown below in the field of view diagram. Refer to the chart printed on the meter for more information.



Distance to Object

Measurement Notes

- 1. The object under test should be larger than the spot (target) size calculated by the field of view diagram (see diagram on previous page or on side of the meter).
- If the surface of the object under test is covered with frost, oil, grime, etc., clean before taking measurements.
- If an object's surface is highly reflective apply masking tape or flat black paint before measuring.
- The meter may not make accurate measurements through transparent surfaces such as glass.
- 5. Steam, dust, smoke, etc. can obscure accurate measurements.
- 6. The meter compensates for deviations in ambient temperature. It can, however, take up to 30 minutes for the meter to adjust to extremely wide ambient temperature changes.
- 7. To find a hot spot, aim the meter outside the area of interest then scan across (in an up and down motion) until the hot spot is located.

Battery Replacement

When the low battery symbol is appears on the LCD, replace the meter's 9V battery. The battery compartment is located on the bottom of the meter's handle. Open the compartment by sliding the battery compartment cover off in the direction of the arrow. Replace battery and re-install the battery compartment cover.

Calibration and Repair Services

Extech offers complete repair and calibration services for all of the products we sell. For periodic calibration, NIST certification or repair of any Extech product, call customer service for details on services available. Extech recommends that calibration be performed on an annual basis to ensure calibration integrity.



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