

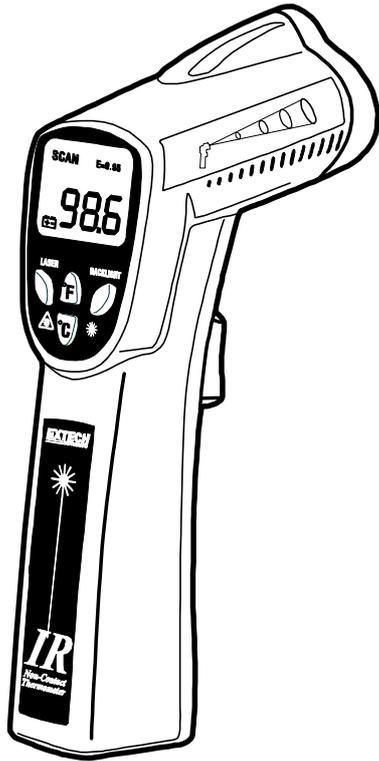
User's Manual

EXTECH[®]
INSTRUMENTS

A FLIR COMPANY

**High Temperature InfraRed Thermometer
with Laser Pointer**

MODEL 42530



CE

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.

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
- Do not use the laser near explosive gases or in other potentially explosive areas



Specifications

Infrared Thermometer Specifications

| | | |
|--------------------|--|--------------------------|
| Range / Resolution | -50 to 538°C (-58 to 1000°F) | 0.1°C/F<200 / 1°C/F> 200 |
| Accuracy | ± 2% of reading or ± 2°C (4°F) whichever is greater. Note: Accuracy is specified for the following ambient temperature range: 18 to 28°C (64 to 82°F) | |
| 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 | 3½ digit backlit LCD display with function indicators |
| Display rate | 1 second approx. |
| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Operating Humidity | Max. 80% RH |
| Power Supply | 9V battery |
| Automatic Power Off | Meter shuts off automatically after 7 seconds |
| Weight | 180g / 6.35 oz. |
| Size | 211 x 89 x 38mm (8.3 x 3.5 x 1.5") |

Meter Description

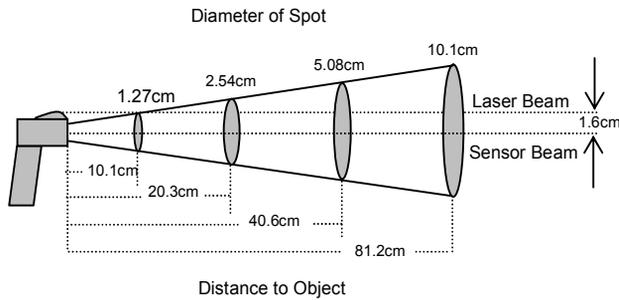
1. LCD Display
2. Function Buttons
3. Handle Grip
4. Laser Pointer
5. IR Sensor
6. Measurement Trigger
7. Battery Compartment

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**

Field of View

The meter's field of view is 8:1, meaning that if the meter is 20.3cm from the target, the diameter of the object under test must be at least 2.54cm. Other distances are shown below in the field of view diagram. Refer to the chart printed on the meter for more information.



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).
2. If the surface of the object under test is covered with frost, oil, grime, etc., clean before taking measurements.
3. If an object's surface is highly reflective apply masking tape or flat black paint before measuring.
4. 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  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.



You, as the end user, are legally bound (**Battery ordinance**) to return all used batteries and accumulators; **disposal in the household garbage is prohibited!**

You can hand over your used batteries / accumulators at collection points in your community or wherever batteries / accumulators are sold!

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

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