INFRARED *THERMOMETERS*

LED indicator changes
color to show environment
condition for potential
mildew formation

IR400 630°F (332°C), 8:1, Compact Laser IR Thermometer

Compact thermometer with MIN/MAX readings

- MAX/MIN features display highest and lowest values
- Built-in laser pointer identifies target area
- LCD display with backlight
- Automatic Data Hold when trigger released
- Fixed 0.95 emissivity covers 90% of surface applications
- Auto Power Off
- Complete with 9 V battery and pouch

IRT600 662°F (350°C), 12:1, IR Thermal Condensation Scanner

Measures Temperature and Humidity then calculates Dew Point and warns when conditions for mold growth exist

- Great for processes that require surface temperature control and monitoring
- Green LED changes to Yellow, indicating moderate potential for mildew formation, and then to Red, for high potential, as the surface temperature reading gets closer to and then equals the calculated Dew Point reading
- Dual lasers indicate ideal measuring distance where the two lasers converge to a 1" target spot
- 150 millisecond IR Temperature response time
- Max hold
- LCD display with backlight
- Includes 9 V battery and pouch

Tough, Reliable and Accurate

InfraRed thermometers provide non-contact, point-and-shoot temperature measurements ensuring safety and accuracy on the job. Extech also offers a robust IR thermometer with waterproof IP65 rating and is drop-tested to 3 meters.

N NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** next to product part numbers.

CALIBRATION TRACEABLE TO NIST

SPECIFICATIONS	IR400 **N**	IRT600 **N**
IR Temperature (Non-contact)	-4 to 630°F (-20 to 332°C)	-22 to 662°F (-30 to 350°C)
Basic Accuracy	±2% of reading +4°F/2°C	±(1% of reading + 2.7°F/1.5°C)
Max. Resolution	0.1°F/°C	0.1°F/°C
Emissivity	0.95 fixed	0.95 fixed
Distance to Spot Ratio	8:1	12:1
Air Temperature	—	32 to 122°F (0 to 50°C)
Humidity	—	20 to 80% RH
Dew Point	—	-22 to 212°F (-30 to 100°C)
Waterproof	—	—
Drop proof	—	—
CE approved	Yes	Yes
Dimensions/ Wt	6.3x3.2x1.6" (160x82x42 mm)/6.3 oz (180 g)	6.6x3.2x2.3" (168x82x58 mm)/5.7 oz (163 g)
Warranty	2 years	2 years

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See pages 146-147 for a complete listing.*

NEW

Display color changes when reading is outside Hi/Low set points

Waterproof (IP65) and rugged 3 meter drop proof design

NEW

42510A 1200°F (650°C), 12:1, Compact Laser IR Thermometer

Compact thermometer with high accuracy and wide Temperature range

- Wide Temperature measurement range from -58 to 1200°F (-50 to 650°C)
- Adjustable high/low visual and audible alarm
- Adjustable emissivity for better accuracy on different surfaces
- MAX/MIN features display highest and lowest values
- Built-in laser pointer identifies target area
- LCD display with backlight
- Over-range indicator
- Data Hold and Auto Power Off
- Complete with 9 V battery and pouch

IR270 1202°F (650°C), 12:1, IR Thermometer with Color Alert

Fast responding, programmable alarm with red or blue display alert and audible alarm

- Great for processes that require temperature control and monitoring
- User programmable Hi/Low alarms with audible beeper — tri-color LCD display changes to Blue backlight when reading goes below low alarm setting and Red backlight when reading exceeds High set point
- Record/Recall up to 20 readings
- Adjustable emissivity for better accuracy on different surfaces
- MAX/MIN/AVG/DIF functions
- Built-in laser pointer identifies target area
- LCD display with backlight
- Data Hold, Auto Power Off, and Low battery indication
- Complete with 9 V battery and pouch

IR320 1202°F (650°C), 12:1, Waterproof IR Thermometer with Color LED Alarm

Programmable high and low alarms with red (HI) and blue (LOW) visual LED alert

- Dual laser pointer identifies target area between the two points (~1"/25 mm diameter of measured area)
- Adjustable emissivity for better accuracy on different surfaces
- Programmable high and low alarm set points
- Lock function for continuous temperature measurement without pressing the trigger
- Waterproof (IP65 rating) with 3 m drop-proof protection
- MAX/MIN/AVG/DIF functions
- LCD display with backlight
- Tripod mount for hands-free operation (Tripod not included)
- Data Hold, Auto Power Off, and Low battery indication
- Complete with 9 V battery and pouch

42510A N	IR270 N	IR320 N	SPECIFICATIONS
-58 to 1200°F (-50 to 650°C)	-4 to 1202°F (-20 to 650°C)	-4 to 1202°F (-20 to 650°C)	IR Temperature (Non-contact)
±(1% of reading + 2°F/1°C)	±(1% of reading +2°F/1°C)	±(1% of reading + 2°F/1°C)	Basic Accuracy
0.1°F/°C	0.1°F/°C	0.1°F/°C	Max. Resolution
0.1 to 1.00 (adjustable)	0.1 to 1.00 (adjustable)	0.10 to 1.00 (adjustable)	Emissivity
12:1	12:1	12:1	Distance to Spot Ratio
—	—	—	Air Temperature
—	—	—	Humidity
—	—	—	Dew Point
—	—	IP65	Waterproof
—	—	Drop tested to 3 meters	Drop proof
Yes	Yes	Yes	CE approved
6.3x3.2x1.6" (160x82x42 mm)/6.4 oz (180 g)	7.1x4.2x1.6" (180x107x40 mm)/5.3 oz (150 g)	7.4x4.6x2.2" (189x118x55 mm)/6.3 oz (180 g)	Dimensions/ Wt
3 years	3 years	3 years	Warranty

EXTECH®

Type K Thermometer

IR267 1112°F (600°C), 12:1, IR Thermometer with Type K Input

Displays Air Temperature and IR or Type K

- Wide temperature range for non-contact InfraRed and Type K thermocouple measurements
- Measures Ambient (Air) Temperature
- Adjustable emissivity for better accuracy on different surfaces
- Adjustable high/low visual and audible alarm
- MAX/MIN/A VG and DIF for differential temperature reading
- LCD display with backlight
- Built-in laser pointer
- Data Hold, Auto Power Off, and Low battery indication
- Complete with 9V battery and general purpose Type K bead wire probe

For a variety of Type K Thermocouple temperature probes see below and p. 52

42512 Dual Laser, 1832°F (1000°C), 30:1, IR Thermometer

Fast response and accurate measurements

- Dual laser simplifies distance-to-target ratio— no more calculations!
- Accurate measurements at 30" (762 mm) distance
- Fast 150 millisecond instantaneous response for capturing spikes in temperature
- Max mode captures and holds rapidly changing temperatures
- Lock function for continuous readings
- White backlit dual LCD display
- Adjustable emissivity increases measurement accuracy for different surfaces
- Double molded housing
- Adjustable High/Low set points with audible alarm alerts user when temperature exceeds the programmed set points
- Complete with carrying case and 9 V battery

Fast responding, wide temperature ranges

Extech's IR thermometers accurately detect temperatures at far distances, and the 100 ms response time enables faster hot spot scanning.

ACCESSORIES
(See p. 52 for more Type K probes)

BATT-37V	Rechargeable 3.7 V Battery
TP870	Type K Bead wire Probe (-40 to 482°F/ -40 to 250°C)
871515	Type K, 4" (100 mm) General Probe (-32 to 1292°F/ -200 to 700°C)
881602	Type K, 6" (100 mm) Surface Probe (-58 to 1472°F/ -50 to 800°C)
881603	Type K, 6" (150 mm) Immersion Probe (-58 to 1292°F/ -50 to 700°C)

CALIBRATION TRACEABLE TO NIST

SPECIFICATIONS	IR267	42512 Ⓝ
IR Temperature (Non-contact)	IR: -58 to 1112°F (-50 to 600°C);	IR: -58 to 1832°F (-50 to 1000°C)
Type K Temperature (Contact)	Type K: -58 to 2498°F (-50 to 1370°C)	—
Air Temperature	—	—
Humidity	—	—
Basic Accuracy	IR: ±2% rdg or 4°F (2°C); Type K: ±1.5% rdg + 2°F/1°C	IR: ±(1% of rdg + 2°F/1°C)
Max. Resolution	0.1°F/°C	0.1°F/°C
Emissivity	0.1 to 1.00 (adjustable)	0.10 to 1.00 (adjustable)
Distance to Spot Ratio	12:1	30:1
CE approved	Yes	Yes
Dimensions/Weight	6.0x4.7x1.7" (153x120x42 mm)/4.9 oz (138 g)	5.7x4x1.6" (146x104x43 mm)/5.7 oz (163 g)
Warranty	3 years	3 years

Ⓝ *Indicates products that are available with optional calibration traceable to* **NIST.** *See pages 146-147 for a complete listing.*

Type K Thermometer

Upload stored images/videos to a PC for further analysis or report documentation.

42545 1832°F (1000°C), 50:1, with Alarm, IR Thermometer

50:1 distance to target ratio

- Highest 50 to 1 distance to target ratio measures smaller surface areas at greater distances
- Widest Temperature range from -58 to 1832°F (-50 to 1000°C)
- Adjustable high/low alarm alerts user visually and audibly when temperature exceeds programmed limits
- Adjustable emissivity for better accuracy on different surfaces
- MIN/MAX/AVG/DIF features display highest, lowest, average, and MAX minus MIN values
- Large backlit display
- Built-in laser pointer
- Automatic Data Hold
- Auto Power Off
- Complete with 9 V battery and hard carrying case

42570 3992°F (2200°C), 50:1, Dual Laser, IR Thermometer

Fast response (100 ms) with high accuracy plus Type K input and USB interface

- High 50:1 distance to target ratio measures smaller surface areas at greater distances
- Dual laser targeting indicates ideal measuring distance when two laser points converge to 1" target spot
- Fast 100 ms response time
- Tripod mounting feature and Lock function for continuous measurements
- Stores up to 100 readings
- Backlit LCD with bargraph
- MAX/MIN/AVG/DIF functions
- Adjustable emissivity
- Adjustable High/Low set points with audible alarm
- Complete with general purpose Type K bead wire probe, USB cable and PC software, tripod, 9 V battery and case

For a variety of Type K Thermocouple temperature probes see p. 50, 52

VIR50 3992°F (2200°C), 50:1, Dual Laser, Video IR Thermometer

2.2" Color TFT LCD and built-in camera with a microSD card for capturing images (JPEG) and videos

- Dual laser targeting indicates ideal measuring distance when two laser points converge to 1" target spot
- Fast 150 ms response time
- Color LED bargraph
- Type K and Air Temperature and Relative Humidity functions
- Adjustable emissivity
- Adjustable High/Low set points with audible alarm
- MAX/MIN/AVG/DIF functions
- Tripod mounting feature and Lock function for continuous measurements
- USB interface
- Includes microSD card, general purpose Type K bead wire probe, USB cable, rechargeable 3.7 V battery (BATT-37V), and case

For a variety of Type K Thermocouple temperature probes see p. 50, 52

42545 Ⓝ	42570 Ⓝ	VIR50 Ⓝ	SPECIFICATIONS
IR: -58 to 1832°F (-50 to 1000°C)	IR: -58 to 3992°F (-50 to 2200°C)	IR: -58 to 3992°F (-50 to 2200°C)	IR Temperature (Non-contact)
—	Type K: -58 to 2498°F (-50 to 1370°C)	Type K: -58 to 2498°F (-50 to 1370°C)	Type K Temperature (Contact)
—	—	Air: 32 to 122°F (0 to 50°C)	Air Temperature
—	—	0 to 100% RH	Humidity
IR: 2% rdg + 4°F/2°C<932°F (500°C); 3% + 9°F/4°C>932°F (500°C)	IR: ±(1% of rdg + 2°F/1°C) Type K: ±(1.5% of rdg + 5°F/3°C)	IR: ±(1% of rdg + 2°F/1°C) Type K: ±(0.5% + 2.7°F/1.5°C); RH: ±5%	Basic Accuracy
0.1°F/°C	0.1°F/°C	0.1°F/°C; 1% RH	Max. Resolution
0.1 to 1.00 (adjustable)	0.1 to 1.00 (adjustable)	0.10 to 1.00 (adjustable)	Emissivity
50:1	50:1	50:1	Distance to Spot Ratio
Yes	Yes	Yes	CE approved
9x3.9x2.2" (230x100x56 mm)/10.2 oz (290 g)	8x6.1x2" (204x155x5 2mm)/11.3 oz (320 g)	7.4x6.0x2.2" (189x152x57 mm)/17.4 oz (494 g)	Dimensions/Weight
3 years	3 years	3 years	Warranty