

IR50i

Infrared Thermometer

support K Type Thermocouple



This is capable of non-contact IR (infrared) temperature measurements with the touch of a button. The built-in laser pointer increases target accuracy while the backlight LCD and versatile push-buttons combine for convenient and ergonomic operation.

Pocket-sized and easy to use — just point, shoot and read the temperature on the large backlight display. When you need a fast, easy, safe way to measure surface temperature, you need a this non-contact thermometer. Use it at home, work, anywhere.

- Features**
- 1-year warranty
 - Supports K type thermocouple
 - Max, min, diff., and avg temperature reading
 - Auto power off to save battery power
 - LCD backlight for clear readout display
 - Selectable °C or °F units
 - Low battery indication

applications

Electrical — Diagnostic and Preventative of Electrical Systems

Infrared thermometers are proven money-saving diagnostic and predictive tools used for electrical systems and equipment maintenance inspection. IRtek full line of infrared thermometers provide precise readings with 1-4% accuracy, and from as far away as 250 feet (75 meters) depending on the model used. These instruments are lightweight, rugged, and easy to use.

Connectors

Electrical connections can gradually loosen the connector, and generate heat as a result of repeated heating (expansion) and cooling (contraction), and/or dirt, carbon deposits, and corrosion. A non-contact thermometer quickly determines temperature increases that indicate serious problems.

Electric Motors

To maintain lifespan of motors, inspect supply power connections and circuit breakers (or fuser) for equal temperatures.

Ballasts

Detect overheated ballast before it begins to smoke.

Transformers

Check the windings of air-cooled units for hotspots that indicate winding flaws.

Back-up Batteries

Check low-voltage batteries for proper connection. Poorly attached cell strap connections may heat up enough to burn posts.

Uninterrupted Power Supplies

Identify hot localized connections in the UPS output filters. A cold spot may indicate an open DC filter circuit.

Utilities

Identify hot spots in connections, cable splices, transformers, and other equipment. Several IRtek models feature optical ranges of 1000:1 or greater, bringing almost any target easily within reach.



Motor Bearings

Detect hot spots and schedule repairs or replacements before problems lead to equipment failure.

Phase-to-Phase Measurement

Check cables and connectors for equal phase-to-phase temperatures for induction motors, large computers, and other equipment.

Motor Winding Insulation

Prolong the life of winding insulation by measuring its temperature.

IRtek[®]
No Touch Thermal Solution

Plant and Facility Maintenance

The non-contact handheld thermometer easily determines whether motors, boilers, bearings, electrical systems, and all types of operating equipment are functioning properly, and detects signs of developing problems. These instruments quickly and conveniently measure surface temperatures from a safe distance to keep your plant operating efficiently and preventing costly shutdowns.

Equipment Maintenance

Check moving parts in motors and gear work for hot spots. Temperature change can indicate developing problems in many types of equipment, from ovens and boilers to freezers. Routine temperature audits of generators and their bearings can prevent expensive repairs.



Electrical Maintenance

Check for heat created by loose connectors or buildup. Instantly troubleshoot problems in battery banks and power panel terminations, ballasts, switch gears, and fuse connections, and identify hot spots in the output filters on DC battery connections.



Building Controls

Monitor HVAC/R components for quick energy audits and room balancing in a short time.

Troubleshoot engine problems

Temperature is a vital indicator of how well cooling systems are performing, or whether friction, vibration and other conditions are creating wear in braking systems and bearings.

Process/Product

Monitor process line equipment. Check the temperature of different products on production lines from rubber tires to plastic and cellophane wrapping to chocolate bars.

Vehicle/Fleet Maintenance



end of *zone*

Specifications

Temperature Range	-60°C ~ 500°C (-76°F ~ 932°F)
Distance : Spot	11 : 1
Resolution	0.1°
Accuracy	±1°C (±1.8°F) for 15°C ~ 35°C; ±2% of reading or ±2°C (±4°F) whichever is greater
Emissivity	adjustable 0.10 ~ 1.00
Response Time	1 second
Spectral Response	8 ~ 14µm
Laser Pointer	Single, Class II, up to 1mW
Thermocouple	K type range: -64°C ~ 1400°C (-83.2°F ~ 1999°F); accuracy: ±1% of reading or ±1°C (±1.8°F) whichever is greater
Power	2 x 1.5V (AAA battery)
Size	H175 x D39 x W72 mm
Weight	179g
Standard Accessories	Operation Manual • Batteries • Warranty Card • Certificate of Product Conformance
Optional Accessories	Thermocouple Probe (penetration/air/surface) • Soft Pouch • Hard Case • Certificate of Calibration

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