

TECHNICAL DATA



Features

- Infrared thermometer with integral type K thermocouple input for contact measurement
- Built-in laser pointer identifies target area
- User-selectable °F or °C
- 55:1 Distance to Spot size ratio
- Rechargeable li-ion battery
- High resolution TFT color LCD
- Digitally adjustable emissivity
- Max, Min, Average and Differential readings
- Ambient air temperature, humidity, dew point and wet bulb temperature measurement
- Surface heat conduction, dew point and temperature comparison detection modes
- Audible adjustable alarm
- Internal memory stores up to 999 datapoints
- Trigger lock for continuous monitoring
- Low battery indication and auto shut off
- Includes USB cable, type K bead thermocouple and hard carrying case

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Specifications

IR Temperature

Measuring Range: -58.0°F to 3362°F
(-50°C to 1850°C)

Accuracy: -58.0°F to 32°F
(-50°C to 0°C):
 $\pm 2.0^\circ\text{F} + 0.1^\circ\text{F}/^\circ\text{F}$
 $(\pm 1.0^\circ\text{C} + 0.1^\circ\text{C}/^\circ\text{C})$
32°F to 3362°F (0°C to 1850°C): $\pm 2.0^\circ\text{F}$ or
 $\pm 0.01 \times t^\circ\text{F}$
(Whichever is greater)
 $(\pm 1.0^\circ\text{C}$ or $\pm 0.01 \times t^\circ\text{C}$
(Whichever is greater))

Resolution: 0.1°F (0.1°C)

Contact Temperature (Type K)

Measuring Range: -58.0°F to 2498°F
(-50°C to 1370°C)

Accuracy: -58.0°F to 2498°F
(-50°C to 1370°C):
 $\pm 0.005 \times t + 3.0^\circ\text{F}$
 $(\pm 0.005 \times t + 1.5^\circ\text{C})$

Ambient Temperature Measurement

Measuring Range: 14°F to 122°F
(-10°C to 50°C)

Accuracy: 14°F to 32°F
(-10°C to 0°C):
 $\pm 2.0^\circ\text{F} (\pm 1.0^\circ\text{C})$
32°F to 104°F (0°C to 40°C):
 $\pm 1.0^\circ\text{F} (\pm 0.5^\circ\text{C})$
104°F to 122°F
(40°C to 50°C):
 $\pm 2.0^\circ\text{F} (\pm 1.0^\circ\text{C})$

Resolution: 0.1°F (0.1°C)

Relative Humidity

Measuring Range: 10% RH to 90% RH

Accuracy: $\pm 5\%$ RH

General Specifications

Optical Resolution (D:S): 55:1

Spectral Response: 8 to 14μm

Emissivity: 0.1 to 1.0 (Adjustable)

Response Time: 250ms

Display Type: 2.4" TFT LCD

Display Resolution: 320 x 240 pixels

Display Hold: Yes

High/Low Alarms: Yes

Max/Min: Yes

Average and Differential: Yes

Data Storage: Yes (Up to 999 groups)

F/C Switchable: Yes

Trigger Lock: Yes

Auto Shut-off: Yes (adjustable from 1 to 30 mins)

Laser Type: Class II

Low Battery Indicator: Yes

PC Connectivity: Yes

Power Supply: 3.7V 2600mAh rechargeable Li-ion battery

Battery Life: Approx. 20 hours (Fully Charged)

Charging System: USB-C

Charge Time: 3 hours

Product Certifications: CE, RoHS, UKCA

Operating Temperature: 14 to 122°F (-10 to 50°C)

Storage Temperature: -4 to 140°F (-20 to 60°C)

Operating Humidity Range: 10 to 90%

Maximum Operating Altitude: 6561' (2000m)

Maximum Storage Altitude: 39,370' (12,000m)

Dimensions: 8.07 x 4.88 x 2.56" (205 x 124 x 65mm)

Weight: 0.82lbs (375g)

Model	Description
R2340	Professional Infrared Thermometer
R8888	Medium Hard Carrying Case
R2340-NIST	Professional Infrared Thermometer & NIST