

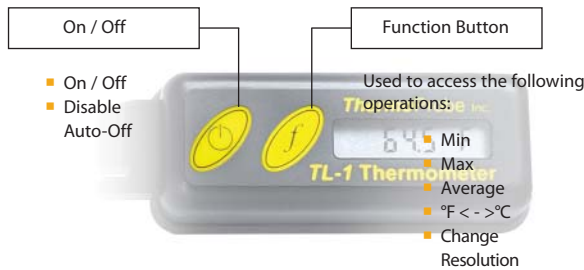
# TL1-R



The TL1-R thermometer is a compact reference thermometer with accuracy comparable to instrument systems costing twice as much. It has all the features of our standard TL1-A plus a higher level of accuracy. The TL1-R can be used in applications where extreme accuracy is required. The TL1-R is also perfect for metrology applications and as a calibrations reference thermometer. The TL1-R is an extremely accurate portable hand held instrument that is ideally suited for field applications and indoor laboratory uses.

The TL1-R uses a precision, 200 Ohm wire wound platinum resistance temperature sensor and attains its high accuracy through our proprietary calibration algorithm.

Standard 5-point Calibration Report, Nominal Points -0.4°, 32°, 120°, 200°, and 300°F. Report also available in equivalent °C temperatures.



## SPECIFICATIONS

<i>Display:</i>	LCD with 0.25 inch characters Trend Indicating Arrows Low Battery & Fault indication
<i>User Functions:</i>	Auto Off after 20 minutes or continuous operation Lowest Reading, Highest Reading, Average Reading Switchable in Units of °F or °C Display hundredths or thousandths resolution
<i>Construction:</i>	Stainless Steel temperature sensor; Standard Sensor length 8" (20cm) Standard diameter 1/4" (6.35mm) Sensor mount acetyl plastic Electronics and display in 3.5" x 1.2" anodized Aluminum enclosure Molded Silicone seal. Highly durable display window, graphics and membrane switches.
<i>Weight:</i>	4 ounces, 124 grams
<i>Temperature:</i>	Resolution 0.001 Degrees Standard Calibration Range: 0 to 300F, -18 to 150C Tolerance: ±0.07°F ±0.04°C NIST Traceable Calibration
<i>Temperature Response:</i>	0 to 50°C ±0.1°C in 3 minutes, water bath
<i>Electronics:</i>	Microcontroller and precision 20-bit A/D converter, FLASH Memory Recommended Temperature Range For Best Accuracy 32 to 112 °F, 0 to 44°C
<i>Sensor:</i>	200 Ohm, Wire-wound Platinum RTD Immersion depth 4", 11cm
<i>Battery:</i>	20mm Coin Size 3V Lithium, Duracell Type CR2032 400 hour service life at 70°F, 21°C Battery Operating Range -4 to 130°F, -20 to 54°C Note: Battery may not provide adequate power below 40°F, 4°C

Specifications subject to change