



ThermoProbe Inc.



 **TL3**

*Reference Thermometer
for Field and Laboratory*

The TL3 thermometer is an ergonomically advanced version of our proven TL1-A, which is a preferred temperature instrument used by hundreds of companies in the pipeline, pharmaceutical and food industries. The TL3 incorporates a larger display and an easier to hold shape with the same specifications for high accuracy and long term stability established by the TL1-A. The rugged enclosure is designed to withstand use in the field, factory or lab. Through numerous distributors equipped for calibration and repair, the TL3 can be supported in many locations throughout the world.

A one year warranty, protective case and NIST traceable 4 point calibration report are included.



On/Off Button



Function Button:

MIN / MAX / AVERAGE, F-C, 0.1- 0.01

Interface Features:

0.5" (1.3cm) character LCD

Switchable units °C or °F

Resolution 0.1 or 0.01

Low Battery & Fault Indication

Continuous operation or Auto Off after 20 minutes.

Stores and displays Average, Lowest & Highest readings.

Arrows indicating increasing/decreasing temperature.

Recommended Ambient Temperature range: 32°F to 112°F
(0°C to 44°C)

Construction:

Stainless Steel RTD temperature sensor

- 100Ω Shock resistant Thin Film RTD

- Standard 8"(20cm) or 12"(30cm) lengths

- Standard 0.25"(6.35mm) diameter

- Standard 0.188" (4.76mm) reduced tip

Glass-Filled Nylon Enclosure with silicone buttons and a durable polyester graphics window.

Nominal Body Dimensions: 5.0 x 1.7 x 0.85"
(3 x 4.3 x 2.2cm)

Nominal Weight: 150 grams

Temperature:

Accuracy +/-0.1°F (0.06°C)

- standard calibration 14°F to 320°F

Standard 4 Point Calibration: 32°F(0°C) , 120°F(49°C),
199°F(93°C) & 300°F(149°C)

Resolution: 0.01 Degrees

Range: -40°F to 400°F (-40°C to 204°C)

- Note: Standard Calibration does not provide full range accuracy

Custom calibration points and ranges available.

Temperature Time Constant:

- 6.5 seconds in circulated water bath

- (63.2% response to temperature change)

Temperature Change Stabilization:

- 19 seconds (0°C to 98°C +/- 0.1°C)

Recommended Minimum Immersion Depth: 3" (7.6cm)

Battery:

3V Lithium CR2032 coin cell

Over 100 hours service life at 70°F (21°C)

Operating Temperature Range -4°F to 130°F
(-20°C to 54°C)

Note: Battery may not provide adequate power if used outside operating range.

TYPICAL APPLICATIONS

Distillations, temperature baths, melting point tests, flash point tests, reference, thermowells, provers, temperature calibration for flow meters.

Industries:

Laboratory

Petroleum

Pipeline

Pharmaceutical

Food