# ThermoProbe Inc.



 Intrinsically Safe

 Reference Thermometer

 for Field and Laboratory

The Intrinsically Safe **TL3-W** thermometer is the latest fullfeatured version of ThermoProbe's industry standard TL series. The TL3-W has been certified to the latest global standards for hazardous locations (Ex).

The TL3-W is a Weather-resistant upgrade from the TL3-A. It is powered with 2-AAA batteries providing excellent battery life. A large display and easy to hold design makes the TL3-W convenient for use as a reference in the lab or field. The rugged plastic alloy case and buttons are well suited for use in industrial applications, even with gloves. The TL3-W innovative circuitry provides improved temperature accuracy, response time, and battery life.

Versatile software functions allow easy selection of Celsius or Fahrenheit units and Display resolution. Minimum, maximum and average temperatures are automatically stored to memory for later reference. Low battery display, and failure mode indications protect the user from false data. Encoded Calibration is unaffected by temperature, vibration, or battery removal.

Through numerous distributors equipped for calibration and repair, the TL3-W can be supported in many locations throughout the world.

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

# **CERTIFICATIONS**

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## 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 seconds in circulated water bath (time response to 63.2% of temp. step change)

Recommended minimum immersion depth: 3" (7.6cm)

#### Interface Features:

0.5" (12.7mm) 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:

Weather Resistant Enclosure

- Stainless steel RTD temperature sensor
  - 100Ω Shock resistant Thin-Film RTD
     Standard 8"(20cm) or 12"(30cm) lengths
  - Standard 0.25"(6.35mm) diameter
    - with 0.188" (4.76mm) reduced tip

Static-dissipative plastic housing with a durable polyester graphics window.

Nominal body dimensions: 5 x 1.75 x 1.15" (13 x 4.4 x 2.9cm)

Nominal weight: 5.5 oz (156 grams)

#### Battery:

2 AAA Duracell MN2400 Over 450 hours service life at 70°F (21°C) Ambient temperature operating 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

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