

## ThermoProbe TL3-A

### Intrinsically Safe Portable Stem Thermometer for Laboratory and Field Reference

-40/400°F (-40/204°C)

**Accuracy:  $\pm 0.1^\circ\text{F}$  ( $\pm 0.06^\circ\text{C}$ )**  
**Resolution: 0.01°**



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

A large display and easy to hold design makes the TL3-A more 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-A innovative circuitry provides improved temperature accuracy, response time and battery life.

TL3-A thermometers are intended to be used anywhere a precision glass stem thermometer or other type thermometer is used. 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.

#### Application:

- Distillations
- Temperature Baths
- Melt Point Testers
- Reference
- Thermowells
- Meter Proving
- PET Verification
- Flow Meter Calibration

#### Features:

- Intrinsically safe
- High measuring accuracy,  $\pm 0.1^\circ\text{F}$  ( $0.06^\circ\text{C}$ )
- Customizable probe lengths from 4" to 36"
- Recording maximum, minimum, hold and average values
- Trend Indicating Arrows
- Low Battery & Fault indication

#### Specifications:

<b>DISPLAY</b>	LCD with 0.5 inch characters Trend Indicating Arrows Low Battery & Fault indication Auto Off after 20 minutes or continuous operation
<b>USER FUNCTIONS</b>	Lowest Reading, Highest Reading, Average Reading Switchable in Units of °F or °C Stainless Steel temperature sensor; Standard Sensor length 8" (20cm)
<b>CONSTRUCTION</b>	Standard diameter 1/4" (6.35mm) with reduced diameter tip of 3/16" (4.76mm)
<b>TEMPERATURE</b>	Resolution 0.01 Degrees Calibrated Accuracy: $\pm 0.1^\circ\text{F}$ from 14 to 320°F, $\pm 0.06^\circ\text{C}$ from -10 to 160°C
<b>TEMP. RESPONSE</b>	6 seconds in water bath.
<b>ELECTRONICS</b>	100 Ohm, Class A Thin Film RTD 20mm Coin Size 3V Lithium, Duracell Type CR2032 400 hour service life at 70°F, 21°C
<b>BATTERY</b>	Battery Operating Range -4 to 130°F, -20 to 54°C Note: Battery may not provide adequate power below 40°F, 4°C

#### Catalog No.

TL-3A-08.3111	Model TL-3A with 8 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points 0, 50, 100, 150°C
TL-3A-08.3126	Model TL-3A with 8 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points -40, 0, 50, 100, 150, 200°C
TL-3A-08.3208	Model TL-3A with 8 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points 32, 110, 212, 300°F
TL-3A-08.3226	Model TL-3A with 8 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points -40, 32, 110, 212, 300, 392°F
TL-3A-12.3111	Model TL-3A with 12 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points 0, 50, 100, 150°C
TL-3A-12.3126	Model TL-3A with 12 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points -40, 0, 50, 100, 150, 200°C
TL-3A-12.3208	Model TL-3A with 12 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points 32, 110, 212, 300°F
TL-3A-12.3226	Model TL-3A with 12 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points -40, 32, 110, 212, 300, 392°F