

ThermoProbe TL3-W Intrinsically Safe Digital Laboratory Thermometer

-40/400°F (-40/204°C)

Accuracy: $\pm 0.1^\circ\text{F}$ (+/- 0.06°C)

Resolution: 0.01°

The TL-3W thermometer is intended to be used anywhere a precision glass stem thermometer or other type thermometer may be used.



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

Available with Bluetooth® connectivity, 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, battery life and Bluetooth® monitoring.

Versatile software functions allow easy selection of Celsius or Fahrenheit units, Display resolution or Bluetooth® activity. 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.

Specifications:

DISPLAY	LCD with 0.25 inch characters Trend Indicating Arrows Low Battery & Fault indication Auto Off after 20 minutes or continuous operation	<u>Catalog No.</u> TL-3W-08.3111 Model TL-3W with 8 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points 0, 50, 100, 150°C
USER FUNCTIONS	Lowest Reading, Highest Reading, Average Reading Switchable in Units of °F or °C Stainless Steel temperature sensor; Standard Sensor length 8" (20cm) Standard diameter 1/4" (6.35mm) with reduced diameter tip of 3/16" (4.76mm) 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. Resolution 0.01 Degrees	TL-3W-08.3126 Model TL-3W 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
CONSTRUCTION		TL-3W-08.3208 Model TL-3W with 8 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points 32, 110, 212, 300°F
TEMPERATURE	Calibrated Accuracy: $\pm 0.1^\circ\text{F}$ from 14 to 320°F, $\pm 0.06^\circ\text{C}$ from -10 to 160°C	TL-3W-08.3226 Model TL-3W 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
TEMP. RESPONSE	14 seconds in water bath. Ultra Low Power Microcontroller, FLASH Memory, 20 bit A/D Converter	TL-3W-12.3111 Model TL-3W with 12 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points 0, 50, 100, 150°C
ELECTRONICS	Recommended Temperature Range For Best Accuracy 32 to 112 °F, 0 to 44°C 100 Ohm, Class A 1/3 DIN RTD Immersion depth 4", 11cm 20mm Coin Size 3V Lithium, Duracell Type CR2032 400 hour service life at 70°F, 21°C	TL-3W-12.3126 Model TL-3W 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
BATTERY	Battery Operating Range -4 to 130°F, -20 to 54°C Note: Battery may not provide adequate power below 40°F, 4°C	TL-3W-12.3208 Model TL-3W with 12 inch sensor. Supplied with NIST traceable, ISO/IEC 17025 accredited report of calibration at test points 32, 110, 212, 300°F
		TL-3W-12.3226 Model TL-3W 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