

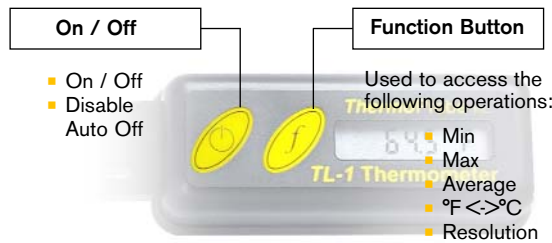
**TL1A**



The TL-1A thermometer is intended to be used anywhere a precision glass stem thermometer or other type thermometer may be used.

The TL-1A is our latest stem thermometer. It is an improved version of the original ThermoProbe model TL-1. The TL-1A incorporates glass thermometer simplicity and reliability with the ease of a digital display. Like precision mercury thermometers, the TL-1A has accuracy, repeatability and long-term stability. But unlike those thermometers there will never be problems with mercury separation or hazardous material cleanup. Different from most electronic thermometers, the "Cordless" TL-1A has no wires to get in the way or break. Battery replacement is easily done through a sealed cover. Encoded calibration is unaffected by temperature, vibration or battery removal. Low battery display, and failure mode indications protect the user from false data.

4 Point NIST Traceable Calibration and a one year warranty included.



NEW FEATURES exclusive to the TL-1A include: auto-off after 20 minutes to save battery life, minimum reading, maximum reading, averaging, easier °F to °C switching and an optional serial output. In addition, the new display constantly indicates temperature increasing or decreasing activity. In addition, the new display arrows indicate increasing or decreasing temperature activity.

**SPECIFICATIONS**

**Display:** LCD with 0.25 inch characters  
Trend Indicating Arrows  
Low Battery & Fault indication

**User Functions:** Auto Off after 20 minutes or continuous operation  
Lowest Reading, Highest Reading, Average Reading  
Switchable in Units of °F or °C

**Construction:** Stainless Steel temperature sensor; standard lengths 8", 21cm with narrow sensing tip.  
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.

**Weight:** 3 ounces, 93 grams

**Temperature:** Range -44 to 600°F, -43 to 315°C  
Resolution 0.01 Degrees  
Calibrated Accuracy  
±0.1°F below 300°F  
±0.2°F above 300°F  
±0.06°C below 150°C  
±0.12°C above to 150°C

**Temperature Response:** 32 to 200 °F in 25 seconds, water bath.

**Electronics:** Ultra Low Power Microcontroller  
FLASH Memory  
20 bit A/D Converter  
Minimum operating temp. dependant on battery condition  
Maximum ambient operating temp. 75°C  
100 Ohm, Class A 1/3 DIN RTD,  
0.05% /yr maximum drift.

**Battery:** 20mm Coin Size 3V Lithium, Type 2032  
500 hour service life at room temperatures.

**Options:** Stem length to 39", 1 m. Custom lengths available.  
Separate probe with high temp PFE cable  
Certification by independent calibration laboratory