

TL1-A LABORATORY THERMOMETER



The TL1-A intrinsically safe thermometer is intended to be used anywhere a precision glass stem thermometer or other type thermometer may be used.

The TL1-A is an improved version of the original ThermoProbe model TL1. The TL1-A incorporates glass thermometer simplicity and reliability with the ease of a digital display. Like precision mercury thermometers, the TL1-A 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" TL1-A 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.

FEATURES

- AUTO-OFF AFTER 20 MINUTES TO SAVE BATTERY LIFE
- MINIMUM READING
- MAXIMUM READING
- AVERAGING
- EASY °F TO °C SWITCHING
- DISPLAY ARROWS INDICATE INCREASING OR DECREASING TEMPERATURE ACTIVITY.



ON/OFF BUTTON

- ON / OFF
- DISABLE AUTO-OFF



FUNCTION BUTTON

USED TO ACCESS THE FOLLOWING OPERATIONS:

- MIN
- MAX
- AVERAGE
- °F < > °C
- RESOLUTION

SPECIFICATIONS

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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 Display tenths or hundredths resolution
Construction:	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.
Weight:	3 ounces, 93 grams
Temperature:	Resolution 0.01 Degrees Calibrated Accuracy: ±0.1°F from 14 to 320°F ±0.06°C from -10 to 160°C NIST Traceable Report of Test
Temperature Time Constant:	8 seconds in circulated water bath (63.2% response to temperature change)
Electronics:	Ultra Low Power Microcontroller FLASH Memory 20 bit A/D Converter Recommended Ambient Temperature Range for Best Accuracy 32 to 112 °F, 0 to 44°C
Sensor:	100 Ohm, Class A 1/3 DIN RTD Immersion depth 4", 11cm
Battery:	20mm Coin Size 3V Lithium, Duracell Type CR2032 Over 100 hours Service Life at 70°F, 21°C Battery Operating Range -4 to 130°F, -20 to 54°C Note: Battery may not provide adequate

Specifications subject to change

TYPICAL APPLICATIONS

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

-20°C or above 130°F, 54°C

power if ambient temperature is below -4°F.

Industries: Laboratory Petroleum Pipeline Pharmaceutical

CERTIFICATIONS



DEMKO 05 ATEX139905X

Food

