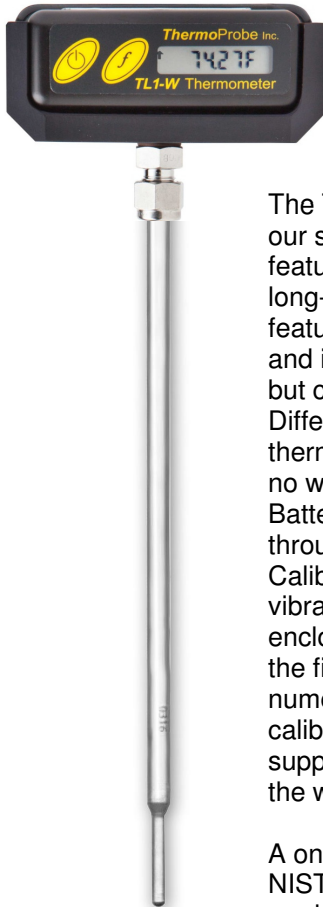




**ThermoProbe Inc.**



# TL1-W



## **Intrinsically Safe** Reference Thermometer for Field and Laboratory

The TL1-W is a modified field version of our successful TL1-A thermometer featuring high accuracy, repeatability and long-term stability. The TL1-W also features a rugged frame for reinforcement and is designed for continuous operation, but can be easily powered off if desired. Different from most electronic thermometers, the "Cordless" TL1-W 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. The rugged enclosure is designed to withstand use in the field, factory or lab. Through numerous distributors equipped for calibration and repair, the TL1-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.



### **On/Off Button**

ON / OFF, BACKLIGHT,  
CONTINUOUS OPERATION



### **Function Button:**

MIN / MAX / AVERAGE, F-C, 0.1- 0.01

## CERTIFICATIONS



II 2 G Ex ib IIC T4  
DEMKO 11 ATEX CO09993X  
IECEX ULD 11.0009X

### **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:

6.5 seconds in circulated water bath

(63.2% response to temperature change)

Temperature Change Stabilization:

19 seconds (0°C to 98°C +/- 0.1°C)

Recommended Minimum Immersion Depth: 3" (7.6cm)

### **Interface Features:**

0.25" (6.4mm) character LCD

Backlit Display

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:**

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

Rugged Anodized Aluminum Frame and Enclosure with

silicone seal and a polyester graphics window.

Nominal Body Dimensions: 3.9 x 1.6 x 1.8"

(10 x 4.1 x 4.6cm)

Nominal Weight: 180 grams

### **Battery:**

2 AAA Duracell MN2400

Up to 350 hours service life at 70°F (21°C)

- Dependent on backlight usage

Operating Temperature Range -4°F to 130°F

(-20°C to 54°C)

Note: Battery may not provide adequate power if used

## 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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