



# ThermoProbe Inc.



### Instrument Features:

Two 5-pin DIN connector channels  
Accepts 100Ω and 200Ω RTD, PRT or SPRT  
Standard 5 Point Resistance Calibration:

| Resistance | Accuracy   |
|------------|------------|
| 20Ω        | +/-0.002°C |
| 100Ω       | +/-0.007°C |
| 190Ω       | +/-0.015°C |
| 265Ω       | +/-0.021°C |
| 425Ω       | +/-0.032°C |

Switchable units °C, °F, °K or Ω  
Resolution: 0.01 or 0.001 Degrees, 0.0001 Ohms  
Temperature Range: -328°F to 1764°F (-200°C to 962°C)  
-depending on sensor selection  
ITS-90 or Callandar-Van Dusen Linearization equations

Large 0.5" (1.3cm) character LCD with backlight  
Zero Offset adjustment  
Temperature triggered SPDT relay output (Channel 1)  
Stores and displays Average, Lowest & Highest readings.  
Arrows indicating increasing/decreasing temperature.  
Ambient operating range: 59°F to 86°F (15°C to 30°C)

### Standard Sensors:

- 100Ω Precision wire wound platinum RTD
  - 12"(30cm) sheath with 5ft(1.5m) cable
  - 0.25"(6.35mm) diameter
- Accuracy +/-0.05°F (0.03°C)  
Standard 5 Point Temperature Calibration:  
-4°F(-20°C), 32°F(0°C), 120°F(49°C),  
199°F(93°C) & 300°F(149°C)  
Recommended Minimum Immersion Depth: 4.7" (12cm)  
Custom sensor configurations & ranges available.

### PC & Data Logging Features:

- Data capture to USB Flash drive  
-saved in CSV format (comma delimited)
- Data capture to PC via HyperTerminal
- Selectable logging intervals and polling mode
- 2-Channel Sensor coefficient entry  
-via USB & included software

### Construction:

Rugged powder coated steel enclosure with silicone buttons and a durable polyester graphics window.

Nominal Body Dimensions: 7.25 x 5.25 x 2.25"  
(18.4 x 13.3 x 5.7cm)

## TYPICAL APPLICATIONS

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

Industries: Laboratory  
Pharmaceutical  
Food  
Pour Point Test

## TL2-A USB Interface Reference Thermometer

The TL2-A is a 2-channel precision bench top thermometer offering the convenience of sensor configuration through the USB port of your Windows computer. Coefficient entry from your keyboard makes it easy to change from a daily use RTD to a SPRT including user selectable choice of ITS-90 or Callandar-Van Dusen equations. Faceplate interface allows viewing of Highest, Lowest and Average Readings, Zero Offset adjustment for sensor drift and readings in C, F, K and Ohms. Also the TL2-A can log data to a PC or USB Flash drive.

Units come with 5 point resistance calibration from 20 to 425 ohms.

With available PRT(s) ThermoProbe can provide a temperature reference system.

A one year warranty, calibration report, USB cable, Flash drive, interface software and country specific power adaptor are included.

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