**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)

# 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.

## 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