



TL1-A

Intrinsically Safe
Reference Thermometer
for Field and Laboratory

The TL1-A is a preferred temperature instrument used by hundreds of companies in the pipeline, pharmaceutical and food industries. The TL1-A features high accuracy, repeatability and long-term stability. 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. The rugged enclosure is designed to withstand use in the field, factory or lab. Through numerous distributors equipped for calibration and repair, the TL1-A 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



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

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

Anodized Aluminum Enclosure with silicone seal and a

durable polyester graphics window.

Nominal Body Dimensions: 4.5 x 1.75 x 1.75"

(11.4 x 4.4 x 4.4cm)

Nominal Weight: 95 grams

Battery:

3V Duracell DL2032 coin cell

Over 100 hours service life at 70°F (21°C)

Operating Temperature Range -4°F to 130°F

(-20°C to 54°C)

Note: Battery may not provide adequate power if used outside operating range.

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