

TECHNICAL DATA

Fluke Calibration 1502A/1504 Thermometer Readout



Key features

- 1502A: accuracy up to ± 0.006 °C.
- 1504: accuracy up to ± 0.002 °C plus ability to measure thermistor temperature sensors.
- 1502A: covers -200°C to 962°C
- 1504: covers 0 to 100°C
- Can take readings up to twice per second, making the calibration process faster.

Product overview: Fluke Calibration 1502A/1504 Thermometer Readout

Precision thermometer readouts for laboratory and field use

1502A Tweener PRT Readout

The **Fluke Calibration 1502A Tweener** offers precision temperature measurement with:

- **Accuracy up to ± 0.006 °C**
- **Resolution of 0.001 °C across the entire range**
- **Compatibility with 100-ohm, 25-ohm, and 10-ohm RTD probes**

- **Smallest unit in its class**, ideal for field or bench use
- **Optional 9320A Battery Pack** for full portability

Advanced Features

- Programmable to match a probe's constants for maximum linearity and accuracy
- Displays temperature in °C, °F, K, or resistance in ohms
- Reads standard industrial IEC-751 / "385 ALPHA" RTDs with no programming required
- Accepts **ITS-90 subranges 4 and 6-11**, with formulas built into firmware
- Calibration is done digitally via front-panel—**no need to open the device**
- Comes with **RS-232 interface**; **optional IEEE-488 interface** available

1504 Tweener Thermistor Readout

Need higher precision in a narrower temperature range? The **Model 1504 Tweener** offers:

- **Accuracy up to ± 0.002 °C**
- **Resolution of 0.0001 °C**
- Designed specifically for **thermistors**—more robust, shock-resistant sensors with faster response times
- Ideal for **applications requiring high sensitivity and reliability** in limited temperature spans

Calibration and Probe Integration

- Each Tweener and its compatible probe (sold separately) include individual calibration reports
- System data is available upon request at two or more temperatures for high-precision needs (Calibration Model 1929-X)
- Users can calculate system accuracy using individual device specifications—no need to purchase system-level data unless required

Software Compatibility

Enhance your workflow with Fluke software tools:

- **9934 LogWare:** Real-time data acquisition, graphing, and analysis
- **MET/TEMP II:** Use Tweeners as reference thermometers for automated calibrations

Optional Battery Pack

Take your Tweener on the road with the **9320A Battery Pack**:

- Provides **up to 36 hours of portable operation between charges**
- Perfect for fieldwork or locations without direct power access

Specifications: Fluke Calibration 1502A/1504 Thermometer Readout

Ordering information



Fluke 1502A

Fluke Calibration 1502A-156 Thermometer Readout
 –200°C to 962°C (–328°F to 1764°F)

1502A-2506

Tweener PRT Readout, with IEEE-488

Fluke 1504

Fluke Calibration 1504 Thermometer Readouts
 Any thermistor range

1504-2506

Tweener Thermistor Readout, with IEEE-488

9934-S

Log Ware, Single Channel, Single User

9934-M

Log Ware, Single Channel, Multi User

1929-2

System Verification, PRT with Readout, Accredited.

Choose two temperature points, extra points at additional cost. Available temperature points are -197 °C, -80 °C, -39 °C, 0.01 °C, 30 °C, 157 °C, 232 °C, 300 °C, 420 °C, 500 °C, 660 °C.

1929-5

System Verification, Thermistor with Readout, Accredited.

Choose two temperature points; extra points at additional cost. Available temperature points are -30 °C, -20 °C, -10 °C, 0 °C, 10 °C, 20 °C, 30 °C, 40 °C, 50 °C, 60 °C, 70 °C, 80 °C, 90 °C, 100 °C.

1930

System Calibration, PRT with Readout, Accredited

Choose PRT temperature range for the calibration. Available temperature ranges are -200 °C to 500 °C, -200 °C to 420 °C, -80 °C to 420 °C, -40 °C to 420 °C, -40 °C to 232 °C, 0 °C to 420 °C.

1935

System Calibration, Thermistor with Readout, NVLAP-accredited

Choose thermistor temperature range for the calibration. Available temperature ranges are 100 °C span (6 points over span), 60 °C span (7 points over span), 100 °C span (11 points over span).

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Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

For more information call:
In the U.S.A. (800) 443-5853
In Canada (800) 36-FLUKE
From other countries +1 (425) 446-5500
www.fluke.com

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