

Dados técnicos

Fluke Calibration 1502A Thermometer Readout



Principais recursos

Best performance thermometer in its price range

- Battery packs available
- Best price/performance package

One of Fluke Calibration's best-selling products is the Tweener thermometer, and there's a reason. No other company, not one, has a reference thermometer that comes close to the performance and features of the Tweener for anywhere near its price.

Informações gerais sobre o produto: Fluke Calibration 1502A

Thermometer Readout

1502A Tweener PRT Readout

The Fluke Calibration 1502A Tweener features accuracy up to ± 0.006 °C. In addition, it reads 100-ohm, 25-ohm, and 10-ohm probes, has a resolution of 0.001 °C across its entire range, and is the smallest unit in its class. It also has an optional battery pack for completely portable operation.

Each Tweener is programmable to match a probe's constants for maximum linearity and accuracy. All probe constants and coefficients are programmed through simple, front-panel keystrokes. Temperature is displayed in °C, °F, K, or resistance in ohms.

The 1502A accurately measures the resistance of the probe and then converts the resistance to a temperature value using its built-in algorithms.

For convenience, the 1502A reads the common industrial grade IEC-751 or "385 ALPHA RTD without any programming. Enter the actual R_0 and ALPHA of the individual probe for increased accuracy. For maximum accuracy, use the ITS-90 formulas. The Tweener accepts the subranges 4 and 6 through 11.

ITS-90 formulas reside in the Tweener's firmware. If your probe has been calibrated for any of the above subranges of the ITS-90, you simply enter the coefficients directly into your Tweener.

Each thermometer comes complete with an RS-232 interface for automation of temperature data collection, calibrations, or process control functions. An IEEE-488 interface is available as an option.

The 1502A is calibrated digitally using the front-panel buttons. You never have to open the box to calibrate it. This calibration protocol further reduces the cost of the 1502A. It goes where you go and works the way you want it to.

Software

With our [9934 LogWare](#), both Tweener models may be used for real-time data acquisition. Collect data and analyze it graphically or statistically. Additionally, Tweeners may be used as reference thermometers with our [MET/TEMP II software](#).

Battery pack

Want to take your Tweener on the road? Order Fluke Calibration's 9320A Battery Pack. Our battery gives you 36 hours between charges, allowing you to take your work wherever you need.

Calibration choices

Each Tweener and its accompanying probe (sold separately) have their own individual calibration reports. Overall system error can be calculated from the individual errors, rendering the added cost of system data unnecessary. However, for those requiring it, system data is available at two or more temperatures of your choice. (See Calibration Model 1929-X)

Especificações: Fluke Calibration 1502A Thermometer Readout

Specifications	1502A
Temperature range ¹	-200°C to 962°C (-328°F to 1764°F)
Resistance range	0 W to 400 W, auto-ranging
Probe	Nominal RTPW: 10 W to 100 W RTD, PRT, or SPRT
Characterizations	ITS-90 subranges 4, 6, 7, 8, 9, 10, and 11 IPTS-68: R0, a, d, a4, and c4 Callendar-Van Dusen: R0, a, d, and b
Resistance accuracy (ppm of reading)	0 W to 20 W: 0.0005 W 20 W to 400 W: 25 ppm
Temperature accuracy ¹	±0.004°C at -100°C ±0.006°C at 0°C ±0.009°C at 100°C ±0.012°C at 200°C ±0.018°C at 400°C ±0.024°C at 600°C
Operating temperature range	16°C to 30°C
Resistance resolution	0 W to 20 W: 0.0001 W 20 W to 400 W: 0.001 W
Temperature resolution	0.001°C
Excitation current	0.5 and 1 mA, user selectable, 2 Hz
Measurement period	1 second
Digital filter	Exponential, 0 to 60 seconds time constant (user selectable)
Probe connection	4-wire with shield, 5-pin DIN connector
Communications	RS-232 serial standard IEEE-488 (GPIB) optional
Display	8-digit, 7-segment, yellow-green LED; 0.5-inch-high characters
Power	115 V AC (±10%), 50/60 Hz, 1 A, nominal 230 V AC (±10%), 50/60 Hz, 1 A, nominal, specify
Size (H x W x D)	61 x 143 x 181 mm (2.4 x 5.6 x 7.1 in)
Weight	1.0 kg (2.2 lb)
Probes from Fluke Calibration (Available from your local Fluke Calibration sales representative or directly from Fluke Calibration)	5615, 5627, 5626, 5628, 5622
Calibration	ISO 17025-accredited calibration provided
1. Temperature ranges and accuracy may be limited by the sensor you use.	

Modelos



Fluke 1502A

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

Fluke. *Keeping your world up and running.®*

Fluke Corporation
PO Box 9090, Everett, WA 98206 EUA

Para obter mais informações, ligue para os seguintes números:

Tel: (11) 3530-8901
Email: info@fluke.com.br
www.fluke.com/pt-br

Fluke do Brasil Ltda
CENESP Av. Maria Coelho Aguiar,
215 – Bloco G, 1º andar
São Paulo/SP – CEP: 05804-900

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