

TECHNICAL DATA

8508A-SPRT | Standard Platinum Resistance Thermometer



Product overview: 8508A-SPRT | Standard Platinum Resistance Thermometer

- Range to aluminum point (660 °C)
- Inconel[™] and platinum sheaths guard against contamination
- Less than 8 mK/year drift
- Many calibration options available including by fixed point
- Fifth wire provides shield ground

The 8508A-SPRT Extended Range Metal-Sheath SPRT has been designed and manufactured by Fluke Calibration's primary standards metrologists, to complement the Fluke 8508A Reference Multimeter's precision PRT temperature function.

Specifications: 8508A-SPRT | Standard Platinum Resistance Thermometer

Specifications

Temperature Range



Nominal RTPW	25.5Ω (± 0.5Ω)
Current	1 mA
Resistance Ratio	W(302.9146 K) □ 1.11807 W(234.3156 K) □ 0.844235
Sensitivity	0.1 Ω/ °C
Drift Rate	< 0.008 °C/year (< 0.003 °C/year typical)
Repeatability	< 1 mK
Self-heating at TPW	< 0.001 °C under 1 mA current
Reproducibility	± 0.001 °C or beer
RTPW Drift After Thermal Cycling	< 0.001 °C
Diameter of Pt Sensor Wire	0.07 mm (0.003 in)
Lead Wires	Four sensor wires plus grounding wire
Protective Sheath	Inconel
Diameter:	5.56 mm ± 0.13 mm (0.219 in ± 0.005 in)
Length:	482 mm (19 in)
Insulation Resistance	> 100 MΩ at 661 °C > 1000 MΩ at 20 °C
Calibration	Accredited calibrations from Fluke Calibration included



Ordering information



8508A-SPRT

Standard Platinum Resistance Thermometer



Fluke. Keeping your world up and running.®

Fluke Europe B.V. P.O. Box 1186 5602 BD Eindhoven The Netherlands www.fluke.com/en ©2025 Fluke Corporation. All rights reserved. Data subject to alteration without notice. 04/2025

Modification of this document is not permitted without written permission from Fluke Corporation. For more information call: In Middle East/Africa +31 (0)40 267 5100