

**TECHNICAL DATA**

# Fluke 2600A-101 Sprt Probe



## Key features

- The 2600A-101 is a precision four-wire, 100 Ohm SPRT (Secondary Platinum Resistance Thermometer) probe that have been designed and tested to meet the precision required as a secondary reference standard.

## Product overview: Fluke 2600A-101 Sprt Probe

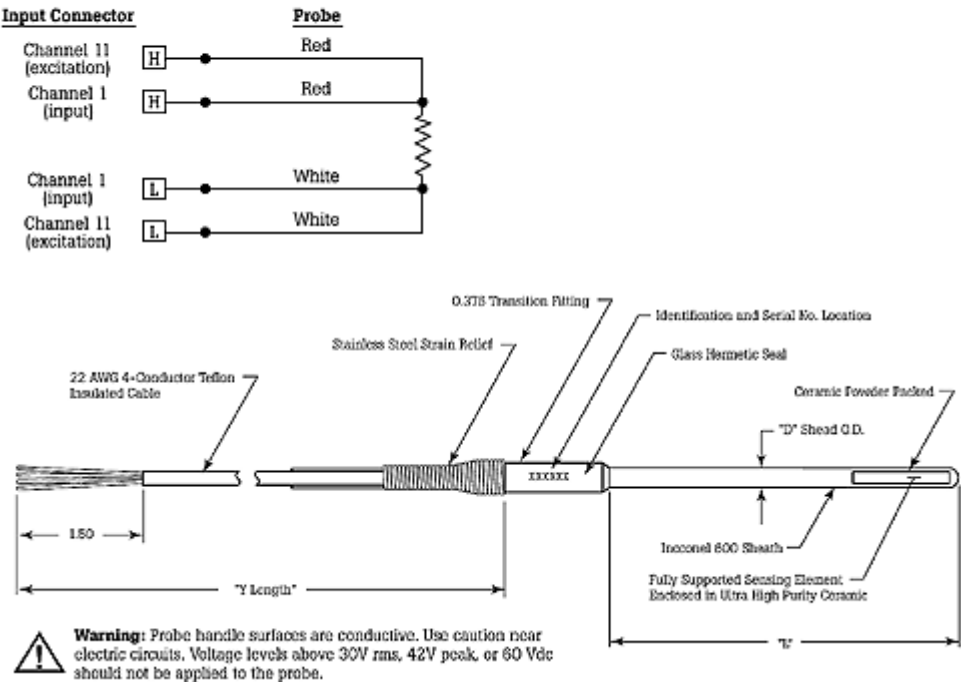
### Secondary Platinum Resistance Thermometer Probe

The 2600A-101 is a precision four-wire, 100 Ohm SPRT (Secondary Platinum Resistance Thermometer) probe that have been designed and tested to meet the precision required as a secondary reference standard. The 2600A-101 has stripped leads suitable for connection to any Fluke data acquisition product or other screw terminal connector. This probe comes with calibration certificates and data for -200 to 6600°C.

### Probe hook up diagram:

The probe connects to channel 1(input) and 11(excitation) on the Hydra input connector.

Channel	Terminal
Ch #11	H Red L White
Ch #1	Red White



**Warning:** Probe handle surfaces are conductive. Use caution near electric circuits. Voltage levels above 30V rms, 42 V peak, or 60 V dc should not be applied to the probe.

## Specifications: Fluke 2600A-101 Sprt Probe

General Specifications		
Use Temperature	200 °C to 660 °C	
Stability	Typical draft < 0.01°C after 100 times from 25 to 660 °C	
Calibrated Accuracy	Temperature	Uncertainty
	- 183°C	+/- 0.01°C
	0°C	+/- 0.007°C
	200°C	+/- 0.024°C
	75%°C	+/- 0.033°C
	660 °C	+/- 0.050 °C

<b>Performance Specifications (nominal)</b>	<b>Ice point resistance:</b>	<b>100 <math>\Omega \pm 0.1 \Omega</math></b>
	<b>Alpha value:</b>	0.00385 $\pm 0.00001 \Omega / \Omega / ^\circ\text{C}$
	<b>Insulation resistance:</b>	1000 Meg $\Omega$ at 100 Vdc at 20 $^\circ\text{C}$
		100 Meg Ohms at 100 Vdc at 400 $^\circ\text{C}$
	<b>Hysteresis:</b>	0.01 $^\circ\text{C}$ Max. using 0, 400 $^\circ\text{C}$ as the end points
	<b>Self heating:</b>	0.02 $^\circ\text{C}$ / mw in well stirred bath
	<b>Thermoelectric voltage:</b>	When tested in an ice bath, with immersion depth from 4 to 10 inches (10 to 25 cm), thermo-electric voltage will not exceed 2 $\mu\text{V}$
	<b>Time constant:</b>	9 seconds typical for 63.2% response to step change
	<b>Long term stability:</b>	Stability at 0 $^\circ\text{C}$ after exposure to upper temperature limits
<b>Dimensions</b>	<b>Sheath diameter (D):</b>	<b>.25 inches (6.3 mm)</b>
	<b>Length (L):</b>	12 inches (0.3 m)
	<b>Cable length (Y):</b>	6 feet (1.83 m)
	<b>Wire:</b>	22 AWG, PTFE jacketed, rated to 200 C
	<b>Wire terminations:</b>	flying lead; stripped / tinned

## Ordering information



### **2600A-101**

SPRT Probe

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04/2025

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