

884X-RTD

100 Ohm RTD Temperature Probe

Highlights

- Manufactured using a coil suspension element design for increased shock and vibration resistance
- Mineral-insulated sheath with a minimum bend radius of 19 mm (3/4 in) for flexibility and durability

Specifications

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Resistance	Nominal 100 Ω
Temperature coefficient	0.00385 Ω/Ω $^{\circ}\text{C}$ nominal
Temperature range	-200 $^{\circ}\text{C}$ to 300 $^{\circ}\text{C}$ (transition and cable temperature: 0 $^{\circ}\text{C}$ to 25% $^{\circ}\text{C}$)
Drift rate	+ 0.13 $^{\circ}\text{C}$ at 0 $^{\circ}\text{C}$ after 1000 hours at 300 $^{\circ}\text{C}$
Sheath Material	316 stainless steel
Leads	PTFE-insulated, nickel-plated stranded copper, 22 AWG
Termination	4-wire banana
Time constant	Four seconds maximum for 63.2% response to step change in water moving at 3 fps
Bending radius	19 mm (3/4 in) except for 50 mm (2 in) area of sheath near tip
Calibration	Includes manufacturer's NIST-traceable calibration and table with R vs. T values in 1 $^{\circ}\text{C}$ increments from -196 $^{\circ}\text{C}$ to 300 $^{\circ}\text{C}$. Callendar-van Dusen coefficients included
Immersion	At least 100 mm (4 in) recommended
Accuracy (includes calibration uncertainty and short-term stability)	± 0.50 $^{\circ}\text{C}$ at -196 $^{\circ}\text{C}$ ± 0.050 $^{\circ}\text{C}$ at 0 $^{\circ}\text{C}$ ± 0.052 $^{\circ}\text{C}$ at 200 $^{\circ}\text{C}$ ± 0.055 $^{\circ}\text{C}$ at 300 $^{\circ}\text{C}$
Size	9 in L x 3/16 in diameter
Marking	Each RTD is marked with the Fluke name and part number

Models and Accessories

- 884X-RTD
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