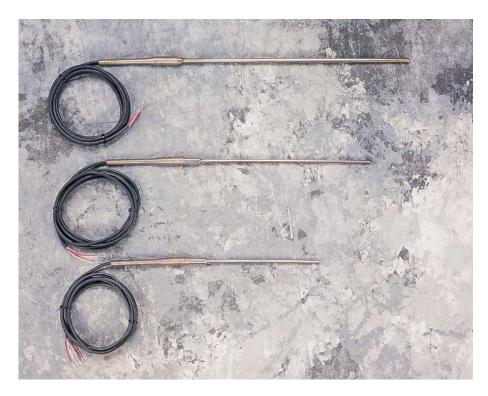
Precision industrial PRTs



- Vibration and shock resistant
- 19 mm (3/4-inch) bend radius for increased durability
- NVLAP-accredited calibration included, lab code 200706-0

When buying a PRT, performance isn't the only criterion you need to look at. The real issues are price-to-accuracy and price-todurability ratios.

5627A probes have a temperature range up to 420 °C and an accuracy as good as \pm 0.025 °C. They come in three different lengths. (Both six- and nine-inch models cover -200 °C to 300 °C.) Each instrument is shipped with its ITS-90 coefficients and a calibration table in 1 °C increments

One of the best features of this sensor is that it conforms to the standard 385 curve, letting you use your DIN/IEC RTD meters fully. Why use a probe that's less accurate than your meter?

The 5627A is manufactured using a coil suspension element design for increased shock and vibration resistance. It has a mineral-insulated sheath with a minimum bend radius of 19 mm (3/4inch) for flexibility and durability. (Bend, if any, should be specified at time of order.)

Six- and nine-inch 5627As are calibrated at -196 °C, -38 °C, 0 °C, 200 °C, and 300 °C. For 12-inch versions the point at 300 °C is replaced by a calibration point at 420 °C.

Each probe is individually calibrated and includes a NVLAP-accredited report of calibration from the manufacturer, lab code 200706-0.

This probe is an excellent value. It has the price-to-accuracy and price-to-durability ratios you should demand in every PRT you buy!

Ordering Information

5627A-6-X	Secondary PRT, 152 mm x 4.7 mm (6 x 3/16 in), -200 °C
	to 300 °C
5627A-9-X	Secondary PRT, 229 mm x 4.7

- mm $(9 \times 3/16 \text{ in}), -200 \degree C$ to 300 °C
- 5627A-12-X Secondary PRT, 305 mm x 6.35 mm (12 x 1/4 in), -200 °C to 420 °C
- 2601 Probe Carrying Case

X = termination. Specify "A" (INFO-CON for 914X), "B" (bare wire), "D" (5-pin DIN for Tweener Thermometers), "G" (gold pins), "I" (INFO-CON for 1521 or 1522), "J" (banana plugs), "L" (mini spade lugs), "M" (mini banana plugs), "P" (INFO-CON for 1523 or 1524), or "S" (spade lugs).

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			Specificati	
			Resistance	Nominal 100Ω
Temperature Coefficient	0.00385 Ω/Ω/ °C nominal			
Temperature Range	-200 °C to 420 °C (5627A-6 and 5627A-9 to 300 °C; transition and cable temperature: 0 °C to 150 °C)			
Drift Rate (k=2)	± 0.04 °C at 0 °C after 100 hours at 420 °C			
Sheath Material	316 Stainless Steel			
Leads	Teflon™-insulated, nickel- plated stranded copper, 22 AWG			
Termination	Specify. See Ordering Information.			
Time Constant	Four seconds maximum for 63.2 % response to step change in water moving at 3 fps.			
Bending Radius	Sheath may be ordered with a bend on a minimum radius of 19 mm (3/4 in) except for 50 mm (2 in) area of sheath near tip. (Hart lab requires 20 cm [8 in] of unbent sheath to re- calibrate.)			
Calibration	Includes manufacturer's NVLAP-accredited (lab code 200706-0) calibration and ta- ble with R vs. T values in 1 °C increments from -196 °C to 500 °C (to 300 °C for 5627A-6 and 5627A-9). ITS-90 coefficients included.			
Immersion	At least 100 mm (4 in) recommended			
Calibrated Accuracy [†] (k=2)	± 0.026 °C at -196 °C ± 0.046 °C at 0 °C ± 0.077 °C at 200 °C ± 0.124 °C at 420 °C			
Size	5627A-12: 305 mm x 6.35 mm (12 in x 1/4 in) 5627A-9: 229 mm x 4.7 mm (9 in x 3/16 in) 5627A-6: 152 mm x 4.7 mm (6 in x 3/16 in)			

[†]Includes calibration uncertainty and 100 hr drift.



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