

Hart Scientific Secondary Standards PRTs

Designed for regular use up to 660°C

If you're using your reference PRTs in a dry block, furnace, or are calibrating often at points above 500°C, you know it greatly reduces the life span of your probes. These new PRTs designed by Hart Scientific are the first we've ever seen designed for consistent use at high temperatures.

Each probe is supplied with a certificate of calibration including all ITS-90 constants, ready to program into your metrology thermometer. These are ideal companion products to any of the precision thermometers shown on pages 110-112. Standard sizes are listed below, custom sizes are available.

Each Unit Includes: Manufacturer's certificate of calibration to ITS-90, and case.



5626 ▲

Specifications

Temperature Range:	-200 to 660°C
Calibration Uncertainty:	±0.015°C at 660°C
Stability:	±0.003°C
Long Term Drift:	≤0.03°C/500 hours @ 660°C
Sheath:	Inconel™ 600
Lead Wires	4-Wire Teflon™ insulated with gold plated spade lugs

Ordering Information

Order #	Mfg #	Description	Price
MP23901T-12	5626-12-S	660°C 100Ω PRT, 12"	
MP23901T-15	5626-15-S	660°C 100Ω PRT, 15"	

Transcat Accredited Calibration with Data	CALL
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Hart Scientific Fast Response PRTs

- Time Constants as Fast as 0.4 Seconds
- Available as DIN/IEC Class A PRTs or with ITS-90 Calibration
- Small Probe Diameters Ranging from 0.5 mm to 3.2 mm

For special temperature measurement applications requiring fast response or short immersion over a wide temperature range, Hart's new 5622 series PRTs are the perfect solution.

Model 5622 PRTs come with two calibration options. Uncalibrated, each of these probes conforms to DIN/IEC Class A requirements with accuracy of ±0.15°C at 0°C and ±0.55°C at 200°C and -200°C. Alternatively, any Model 5622 PRT may be purchased with a Model 1922-4-N ITS-90 Comparison Calibration, which includes seven points from -197°C to 300°C. With calibration, short-term accuracies are achieved as good as ±0.04°C at 0°C.



5622 ▲

Specifications

	5622-05	5622-10	5622-16	5622-32
Temperature Range:	-200°C to 350°C			
Normal RTPW:	100Ω			
Sensor:	4 "385" Platinum Wires			
Calibrated Probe Accuracy: (Includes calibration uncertainty and short-term stability)	±0.04°C at -200°C ±0.04°C at 0°C ±0.09°C at 200°C ±0.09°C at 300°C		±0.04°C at -200°C ±0.04°C at 0°C ±0.045°C at 200°C ±0.055°C at 300°C	
Uncalibrated DIN/IEC Conformity	DIN/IEC Class A; ±0.15°C at 0°C			
Time Constant				
From 0°C to 100°C:	0.4 Seconds	1.5 Seconds	3.0 Seconds	10 Seconds (90%)
Immersion Depth:	10 mm	20 mm	32 mm	64 mm
Thermal EMF	20 µV at 350°C			
Sheath: 316SST	100 x 0.5 mm	100 x 1.0 mm	200 x 1.6 mm	200 x 3.2 mm
Cable:	PVC, 4-wire cable, 2 meters long, 90°C Max Temp			

Ordering Information

Order #	Description	Price
MP5622-05-□	Fast Response PRT, 0.5 mm x 100 mm	
MP5622-10-□	Fast Response PRT, 1.0 mm x 100 mm	
MP5622-16-□	Fast Response PRT, 1.6 mm x 200 mm	
MP5622-32-□	Fast Response PRT, 3.2 mm x 200 mm	
MP1922-4-N	Calibration, PRT Comparison, -200°C to 300°C	
MP2601	Protective Case	

To order, enter termination code in □
Specify S for spade lugs, D for 5-pin DIN, or I for INFO-CON