SEMI-STANDARD RTDs

IDEAL REFERENCE PROBES FOR INDUSTRIAL COMPARISON CALIBRATIONS

In designing this new collection of Semi-Standard Platinum Resistance Thermometers, both the customers' needs and the equipment used were taken into consideration. Semi-standard PRTs are typically made in stainless steel sheaths which are 6mm in diameter, and have an Ro value of 100 ohms and an alpha [(R100-Ro)/Ro] of 0.00385. A variety of configurations are available, since particular characteristics might be required, such as short sensing length, fast response, or applicability to a particular temperature range. Most of our semi-standard RTDs have been made longer, and have a slightly wider temperature range. They are all constructed with high quality 100 ohm detectors, and are assembled and calibrated using fixed point cells in-house in a NAMAS approved and supervised laboratory. These sensors are ideal for a comparison reference sensor in industrial and secondary laboratories.





Reference probe used in TC2000 bath.

SPECIFICATIONS

MODEL NUMBER	935				
RO	100 Ω ±0.05 Ω				
ALPHA	0.003850 ±0.000005				
STABILITY	0.01 Ω/year				
RECOMMENDED CURRENT	1mA				
SELF HEATING ERROR AT 1MA	0.004°C				
MODEL SPECIFICATIONS	DIAMETER	LENGTH	SENSING	RANGE	HANDLE
935-14-13	6mm	350mm	25mm	-196 to 250°C	Yes
935-14-16	6mm	450mm	25mm	-100 to 450°C	Yes
935-14-72	6mm	325mm	25mm	-50 to 670°C	No
935-14-95	6mm	450mm	25mm	-100 to 670°C	Yes

ORDERING INFORMATION

935-14-82	Semi Standard PRT -50 to 250°C (482°F)
935-14-13	Semi Standard PRT -196 to 250°C (482°F)
935-14-16	Semi Standard PRT -100 to 450°C (842°F)
935-14-72	Semi Standard PRT -50 to 670°C (1238°F)
935-14-95	Semi Standard PRT -100 to 670°C (1238°F)