

# STANDARD RTD SENSOR

## Semi Standard Platinum Resistance

Model : SSPRT



### INTRODUCTION

SSPRT is Highly Accurate Platinum Resistance Thermometer (PT 100) offer the temperature range of - 200 to 660°C. SSPRT gives the benefit of high accuracy and low drift in a solid metal case. Wire wound resistance element give good stability with low temperature coefficient and high accuracy.

SSPRT is constructed with a 6 mm outer diameter of Inconel sheath of high durability. SSPRT is available in different accuracies and length. A special powder mixture is filled into the sensor capsule to support the element from mechanical shocks. This model is supplied with 5 point calibration or fixed point ITS-90 Chart with smaller uncertainty

### APPLICATIONS

Used as a reference standard to calibrate various Temperature probes, Drywell calibrator, Liquid bath, Etc.,. In all type of Industries and calibration Laboratories.

### FEATURES

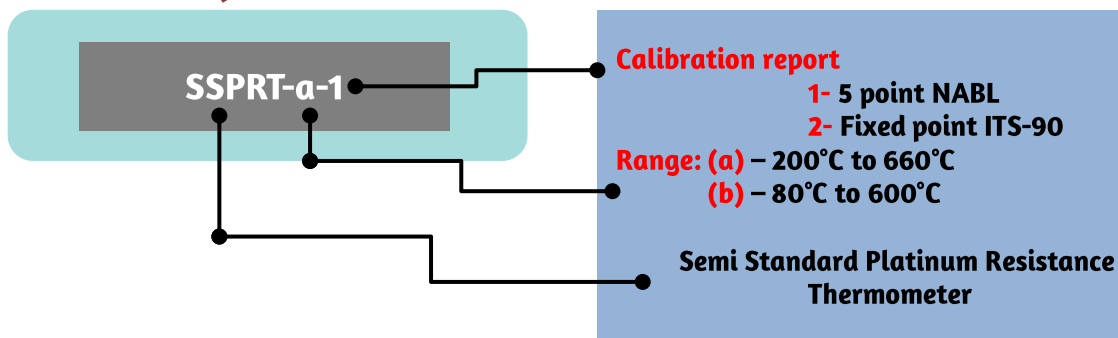
- ✓ Temperature range from -200 to 660°C
- ✓ 6mm O.D & 450mm Length
- ✓ Outer sheath SS 316 / Inconel
- ✓ High accuracy & Stability
- ✓ Manufactured & tested under strict quality control standards
- ✓ Cycled to stability
- ✓ Fast response
- ✓ Low Drift
- ✓ ISO / IEC 17025 Accredited calibration certificate.

# Technical Specifications

Model	SSPRT
Type	PT 100
Temperature Range*	(a) -200 to 660°C (b) -80 to 600°C
Temperature co-efficient	0.00385 $\Omega$ / $\Omega$ / °C
Stability	RO typical drift < 0.05°C after 100 hrs at 600 °C
Thermal shock	RO typical drift < 0.01°C after 100 times from 25 to 600 °C
Vibration	withstand 10 to 2000Hz at 20 G's
Recommended measuring current	1mA
Sheath Diameter	6mm
Sheath Length	450mm
Cable Length	1500mm
Outer Sheath	SS-316
End Connection	Flying Lead, 4 wire
Case dimension (Approx.)	80mm(H) x 750mm(W) x 80mm(D)
Gross weight (Approx.)	2.75kg (6 lbs)
Calibration Option	5 point NABL (or) Fixed point ITS-90 Resistance Vs Temperature chart

**Note\*:** It is better for continuous application to return it's accuracy and long life  
Due to continuous product improvements, Published specifications may change with out notice

## ORDERING INFORMATION



## SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879  
( Thermal, Mechanical, Electro-Technical, Dimension Parameters )

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