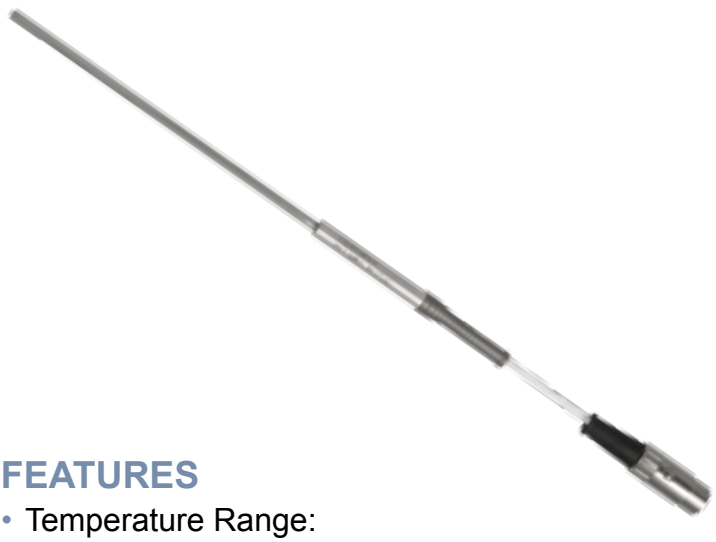
Secondary Standard RTD Probe–0.250”

0.250” Diameter
High Accuracy Calibrations
Single Elements
316 Stainless Steel Sheath

Custom Designs Available with:
- Degree Specific Case Bends



The **Secondary Standard RTD Probe–0.250”** is a Secondary Standard Platinum Thermometers (SSPRT). They are ruggedized versions of Standard Platinum Resistance Thermometers (SPRT). They provide accuracy approaching that of the SPRTs in a more robust package that allows for accurate in the lab or in the field temperature calibrations.

The 0.250” diameter secondary standard is an excellent choice for all of your liquid calibration bath comparisons.

High purity (99.999%) pure, larger diameter sensing wire gives excellent short term repeatability. Hermetically sealed into an Inconel™ 600 sheath for excellent long term stability. NIST Traceable comparison calibration.

FEATURES
- Temperature Range:
  - -200°C (-328°F) To 420°C (788°F)
- Stainless Steel Sheath
- Elements, Single:
  - Platinum
- FEP Jacketed Cable
- Calibration Report and Table Included

APPLICATIONS
- Process
- Pharmaceutical
- Medical
- Aerospace / Defense

dimensions

‘Y’ = Leadwire/Cable Length
‘L’ = Sheath Length

Secondary Standard RTD Probe–0.250”

performance specifications

	Model 631F
Temperature Range	-200 to 420°C
Nominal Resistance at .01°C	100 ±0.545 Ω
Temperature Coefficient	0.003925 ±0.0000020 Ω/Ω/°C
Short-term Repeatability [1]	±0.007°C at 0.010°C
Drift [2]	±0.007°C at 0.01°C
Hysteresis	±0.01°C Maximum
Sensor Length	50.8mm (2.0")
Sensor Location	9.5 ± 3.2 mm from tip (0.375 ± 0.125")
Sheath Dimensions	298.45 mm x 6.35 mm (11.75" x 0.250")
Sheath Diameter Tolerance	±0.0762 mm (± .003 in)
Sheath Material	Inconel 600
Minimum Insulation Resistance	500 Megohms at 23°C
	100 Megohms at 420°C
Transition Junction Temperature Range [3]	-50 to 150°C
Transition Junction Dimensions	70.61 mm x 10.62 mm (2.78" x 0.418")
Minimum Immersion Length	102 mm (4.0")
Response Time [4]	8 seconds typical
Self Heating (in 0°C bath)	60 mW/°C
Lead Wire Cable Type	FEP jacketed cable, TFE insulated conductors, 24 AWG stranded, Silver plated copper
Lead Wire Length	182.9 +5.24 / -0.0 cm (72.0 +6.0 / -0.0")
Lead Wire Temperature Range	-50 to 150°C
Calibration	NIST-traceable calibration

[1] Three thermal cycles from min. to max. temp., including hysteresis
[2] After 100 hours at max. temp. 99.8% confidence.
[3] Temperatures outside this range will cause irreparable damage.
[4] Per ASTM E 644

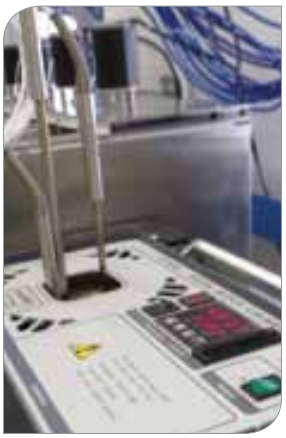
Calibration Temperatures:
-196°C, -78°C, -38°C, .01°C, 156°C, 231°C and 420°C
Report: Includes calibration report and table

Calibration Uncertainty	
Temperature °C	Expanded Uncertainty °C (k=2)
-196	.012
-78	.012
-38	.011
0.01	.009
156	.011
231	.013
420	.021

Calibration Accuracy	
Temperature °C	Accuracy °C (k=2)
-200	± .012
0	± .011
420	± .028

ordering info

Secondary Standard RTD Probe–0.250”			
Model	**Temperature Range**		
631F	Full: -200 to 420°C (-328 to 788°F)		
Model	**Element**	**Resistance**	**Temperature Coefficient**
P2H	Platinum	100 Ohm	.003925
Model	**‘L’ Sheath Length**		
1175	11.75” Sheath Length		
Model	**Leadwire Configuration**		**Color Code**
4S	Four Wire, Single		Red/Red/White/White
Model	**'Y' Leadwire Length**		
72	72.0” Leadwire		



联系方式

深圳市亿为测控电子有限公司
Shenzhen Bill-Well Measurement & Control Electronics Co., Ltd.
广东省深圳市南山区创业路怡海广场东座2407 邮编：518000
电话：+86 755 2641 9890　　传真：+86 755 2641 9680
电子邮箱：sales@bill-well.com