SMART SENSORS INC.

Smart Product Bulletin SPB-07-928

Product Profile High Accuracy A+ RTD

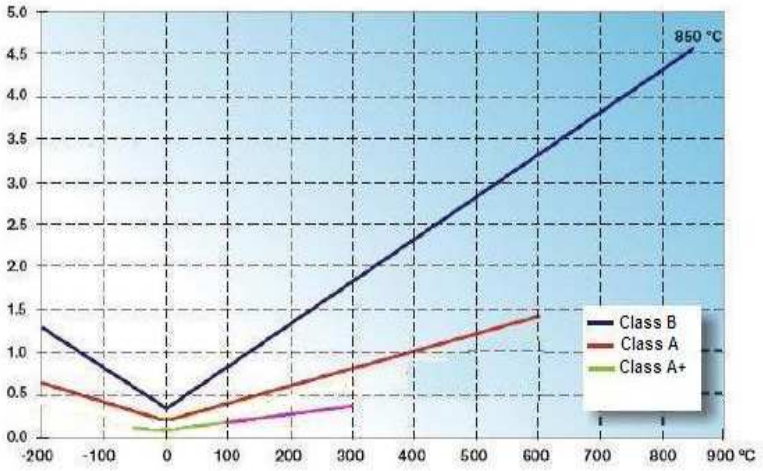
More demanding requirements and improvements in field temperature transmitters has created a need for a more accurate and stable temperature sensor. The **A+** 100 ohm platinum RTD fills that need. Developed to meet stringent accuracy requirements in Pharmaceutical and Food and Beverage applications the **A+** far exceeds the accuracy and and stability of the most common high accuracy RTD (Class A) used in critical applications. For improved loop accuracy a five point NIST traceable calibration report is available. This report provides actual resistance values, which allows the user to input these values into a sensor matching transmitter for improved loop accuracy. The product is available with several different configurations including industry approved sanitary connections. Contact Smart Sensors or a factory authorized representative for application assistance.

Standards Reference:

ASTM E1137-97(product exceeds accuracy for class A see graph)
IEC 60751 (ITS 90) (product exceeds accuracy for class A see graph)

Product Specifications

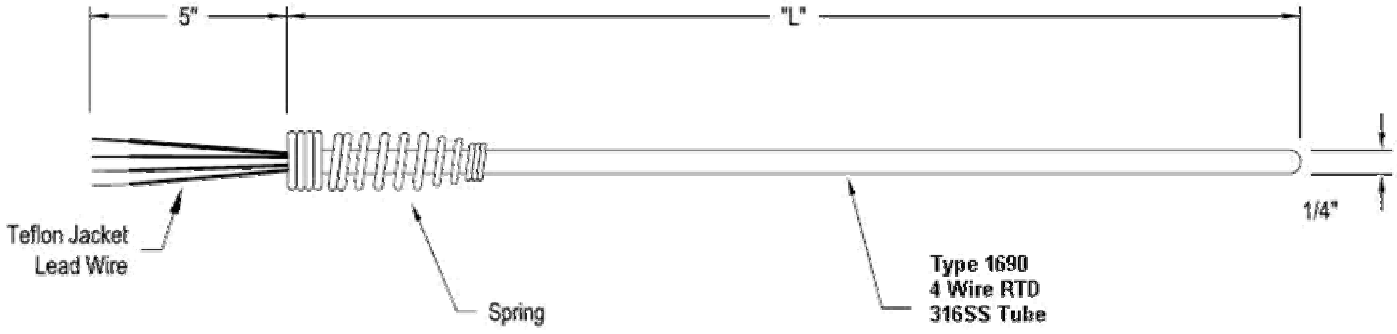
Element Type	100 ohm @ 0 degrees C
Element Material	Platinum
Temp Coefficient	.00385 Ohms/Ohm/degree C
Range	0-100 degrees C 32 to 212 degrees F
"L"	36" max
OD	1/4"
Sheath	316SS
Construction	4 wire single or dual
Lead Wire	22 gage stranded silver plated Copper
Accuracy º F	+ or - .25 º F over the entire range



Accuracy Comparison

	Temp	Grade B ASTM	Class B IEC 60751	A+ Deg C
Part Number for A+ accuracy	-50	0.460	0.550	0.055
1690 - S(single) or D(dual) - Length in inches	0	0.250	0.300	0.030
Example: 1690-D-30	50	0.460	0.550	0.055
(High Accuracy RTD, dual 30" sheath length)	100	0.670	0.800	0.080

Description: The drawing below is a typical RTD used in a thermowell. "L" dimension is determined by the overall length of the thermowell plus the "A" length.



Temperature Measurement...The Right Way!

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