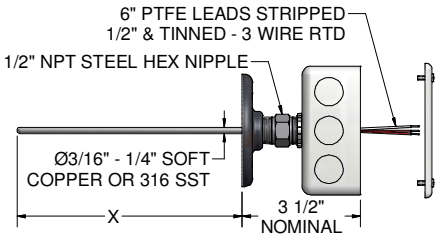
Special-Purpose

Configuration Code SP06
RTD Averaging Sensor

The averaging RTD sensor listed below measures the temperature over the entire sheath length to provide an average temperature measurement of the cross sectional area of air ducts, room gradient temperatures, and other low temperature averaging applications. The sensing element has a resistance output that conforms to a 100 Ω platinum element with a 0.003 85 $^{o}C^{-1}$ temperature coefficient within a measurement range of (0 to 100) ºC [32 to 212] ºF. The RTD sensors are available in copper or 316 stainless steel sheath materials and can be supplied in various lengths up to 800 inches. All RTD sensors 48 inches and longer will be shipped in a coiled configuration. The sensors on this page can be provided with a (4 to 20) mA Transmitter integrally mounted inside the available enclosures.



ORDER CODES

Example Order Number:

1	2		3		4	5	
2290L	4(23)3	-	120	-	8HN	47,	HT

1 RTD Averaging Sensor

CODE	DESCRIPTION
2290L	3-wire continuous averaging RTD sensor

2 Sheath Material and Diameter

CODE	DESCRIPTION	
	DIAMETER (inches)	MATERIAL
3(23)3	3/16	Copper
4(23)3	1/4	Copper
383	3/16	316 SS
483	1/4	316 SS

3 Length

AVAIL. LENGTHS (inches)	DIAMETER O.D. (inches)	BENDABILITY
12	3/16, 1/4	Rigid
24	3/16, 1/4	Rigid
36	3/16, 1/4	Rigid
37 to 324	3/16, 1/4	Bendable
325 to 828	1/4	Bendable
Specify length in inches using 3 digits.		

4 Head Mounting Fittings

CODE	DESCRIPTION
8HN	1/2" x 1/2" NPT stainless steel hex nipple
6HN	1/2" x 1/2" NPT steel hex nipple

5 Terminations

CODE	DESCRIPTION
22(06)	6" individual fluoropolymer leads with terminal pins
31	Aluminum screw-cover head
49	Flip-top aluminum head
47	2" x 4" electrical handibox
Options	
HT	Floor flange threaded on hex
T-440	4-20 mA head-mounted transmitter (see instrument section)

Initial averaging RTD accuracy calculation: ± [1.3 + 0.005 |t|] ºC
|t| = Value of temperature without regard to sign, ºC

TEMPERATURE	ºC	ºF	TEMPERATURE	ºC	ºF
0 ºC [32 ºF]	1.3	2.3	60 ºC [140 ºF]	1.6	2.9
20 ºC [68 ºF]	1.4	2.5	80 ºC [176 ºF]	1.7	3.1
40 ºC [104 ºF]	1.5	2.7	100 ºC [212 ºF]	1.8	3.2