

Resistance Temperature Sensors

RTDs

Watlow manufactures a variety of RTD sensors that are specially designed to ensure precise and repeatable temperature measurement. Watlow sensors are built to meet the most demanding industrial applications while providing a lower total cost of ownership for our customers.

Performance Capabilities

- Precise and stable within the wide temperature range of -328 to 1200°F (-200 to 650°C)

Features and Benefits

Strain-free construction

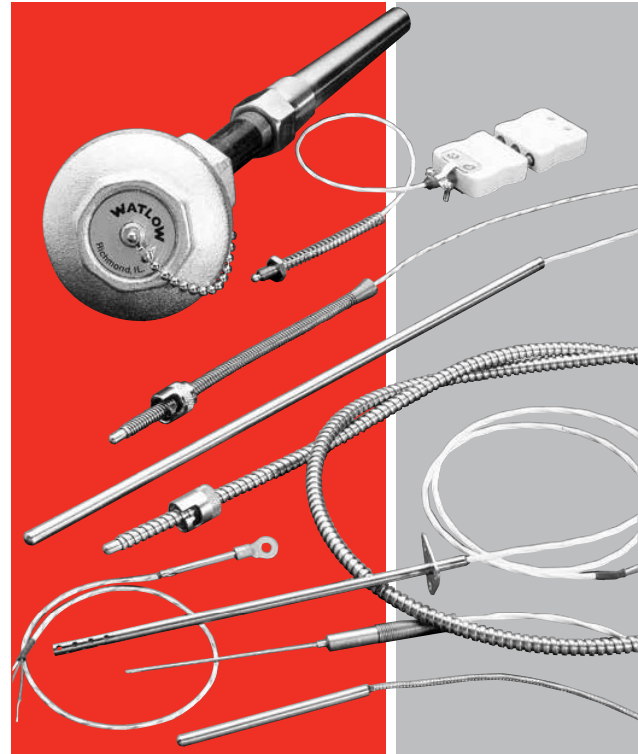
- Provides dependable, accurate readings
- Allows elements from different lots to be substituted with no recalibration needed

High signal-to-noise output

- Increases accuracy of data transmission
- Permits greater distances between sensor and measuring equipment

Temperature coefficient (alpha) carefully controlled while insulation resistance values exceed DIN-IEC-751 standards

- Ensures sensor sensitivity
- Minimizes self heating
- Allows precise measurement
- Repeatable



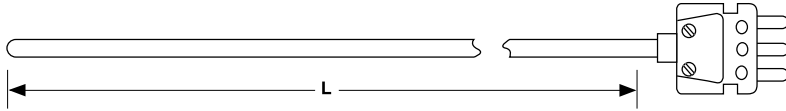
Typical Applications

- Stoves, grills, fryers and other food equipment
- Textile production
- Plastics processing
- Petrochemical processing
- Air, gas and liquid temperature measurement
- Exhaust gas temperature measurement
- Semiconductor processing
- Bearing and gear boxes

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Plug or Jack Termination Style RC



Ordering Information

Part Number

①	②	③	④	⑤	⑥	⑦	⑧ ⑨	⑩	⑪	⑫	⑬ ⑭	⑮
RC		Sheath O.D. (in.)	Cold End Term.	Fittings	0	Sheath Const.	Sheath Length "L" (in.)	Sheath Length "L" (fract. in.)	Element	Initial Element Accuracy	00	0

③ Sheath O.D. (in.)	
G =	0.125
H =	0.188
J =	0.250
Note: 0.125 dia. supplied with 28 gauge wire. 0.188 and 0.250 dia. supplied with 24 gauge wire.	

④ Cold End Termination	
A =	Standard plug
C =	Standard plug with mating connector
Note: Standard plugs and jacks 400°F (200°C).	

⑤ Fittings	
If required, enter the order code from pages 76 to 77. If none enter "0".	

⑦ Sheath Construction	
A =	316/316L SS

⑧ ⑨ Sheath Length "L" (in.)	
Whole inches: 02 to 36	

⑩ Sheath Length "L" (fractional in.)	
0 =	No fraction, whole inches
4 =	1/2 in.

⑪ Element		
	2-Wire	3-Wire
100Ω single	A	B
1000Ω single	J	K

⑫ Initial Element Accuracy @ 0°C	
A =	DIN Class A (±0.06%)
B =	DIN Class B (±0.12%)

Features and Benefits

Durable rigid sheath

- 316 SS -58 to 500°F (-50 to 260°C)

Durable connectors with copper pins

- 400°F (200°C) temperature rating
- Provides simple connection to extension leads

Brazed adapter

- Provides superior connector attachment

High accuracy

- Ensures dependable readings