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

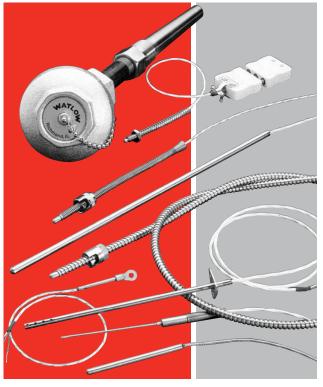
- Provides dependable, accurate readings
- Allows elements from different lots to be substituted with no recalibration needed

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

WATLOW 79

Resistance Temperature Sensors

RTDs

Metal Transitions Style RF





Ordering Information

Part Number

duplex lead wire.



3	Sheath O.D. (in.)	
G =	0.125	
H =	0.188	
J =	0.250	
Note: All sheath diameters, MI cable only (high temp) are 24 gauge		

4 Le	Lead Wire Construction		
	Standard	Overbraid	Flex Armor
Fiberglass stranded	Α	J	R
PFA stranded	В	L	Т

(5)	Fittings
•	· italigo
If required	I, enter the order code from pages 76 to 77. If none enter "0".

6	Lead Wire Termination	
A* =	Standard male plug	
B* =	Standard female jack	
C* =	Standard plug with mating connector	
J* =	Male miniature plug	
K* =	Female miniature jack	
L* =	Male/female mini set	
T =	Standard leads	
U =	Leads with spade lugs	
* Requires two-or three-wire, single element only.		

7	Sheath Construction
K = 3	16/316L SS mineral insulated
8 9	Sheath Length "L" (in.)
Whole inches: 03 to 99, metric lengths and lengths over 99 inches contact factory. Maximum length 165 inches.	

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

<u>(1)</u>	Element	
	2-Wire	3-Wire
100Ω single	А	В

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

13 (14)	Lead Wire Length (ft)
Whole feet: 01 to 99	

Features and Benefits

Stainless steel transitions filled with 500°F (260°C) epoxy

- Protects sensor from moisture
- Encapsulates connection between wire and cable

Coiled spring strain relief

Protects lead wire against sharp bends in the transition area

Flexible mineral insulated construction

• Provides a bendable and highly durable sensor

Temperature rating

• -328 to 1200°F (-200 to 650°C)

High accuracy

• Ensures dependable readings

Diameters available

• 0.125 to 0.250 inch O.D.

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