

## RTDs and Thermistors

### Resistance Temperature Sensing

#### RTDs

Watlow's platinum resistance elements are specially designed to ensure precise and repeatable temperature versus resistance characteristics. The sensors are made with controlled purity platinum, have high purity ceramic components and constructed in a unique strain-free manner.

#### Performance Capabilities

- Ceramic elements are extremely precise and stable within the wide temperature range of -200 to 650°C (-328 to 1200°F).

#### Features and Benefits

##### Patented, strain-free construction

- Provides dependable, accurate readings
- Allows elements from different lots to be substituted without recalibration

##### High signal-to-noise output

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

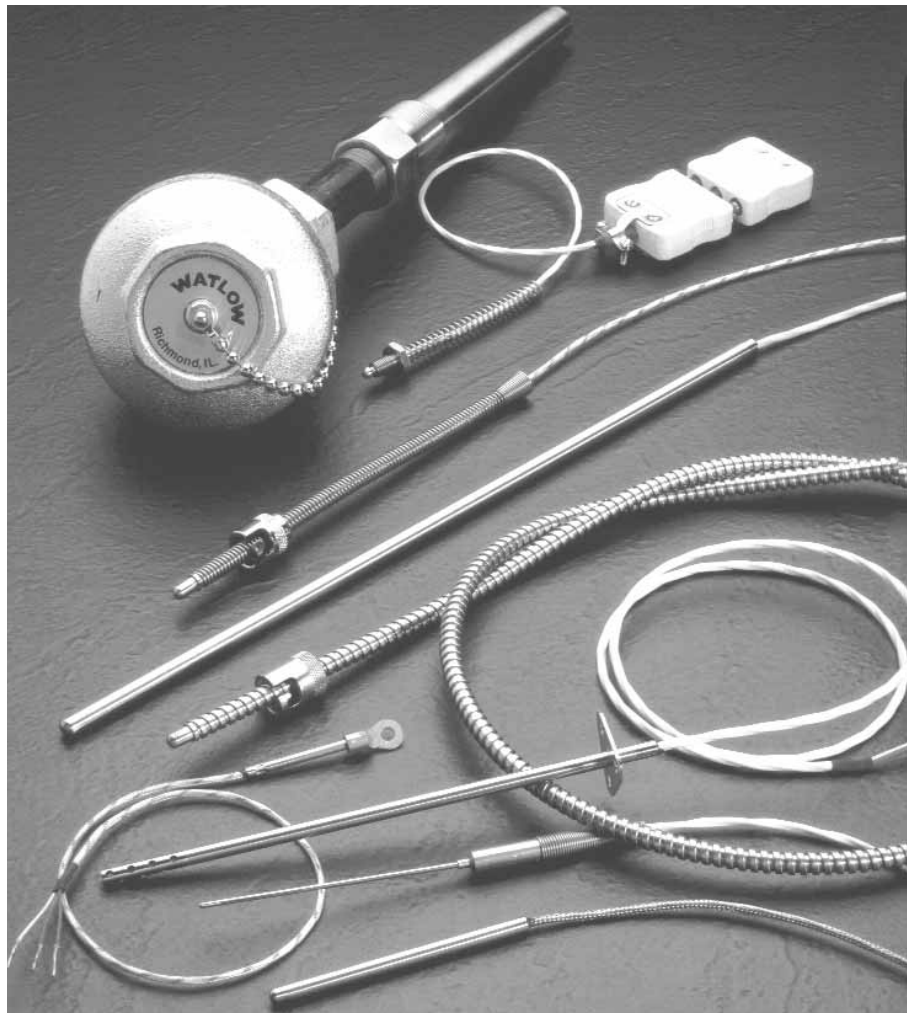
##### Temperature coefficient (alpha) carefully controlled while insulation resistance values exceed DIN-IEC-751 standards

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

##### Highly controlled manufacturing process

- Ensures wide temperature range
- Stabilizes physical and chemical attributes

##### Metric diameters and fittings are available, please consult factory



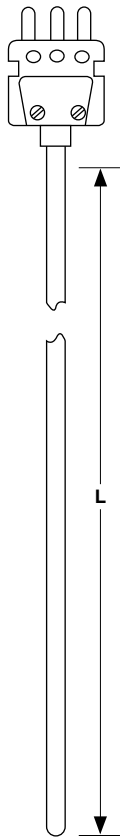
#### Applications

- Air conditioning and refrigeration servicing
- Furnace servicing
- Stoves and grills
- Textile production
- Plastics processing
- Petrochemical processing
- Micro electronics
- Air, gas and liquid temperature measurement
- Exhaust gas temperature measurement

# RTDs and Thermistors

## RTD Style RC

### Plug or Jack Termination



### Features and Benefits

#### Durable rigid sheath

- 316 stainless steel -50 to 260°C (-58 to 500°F)

#### Durable connectors with copper pins

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

#### Brazed adapter

- Provides superior connector attachment

#### High accuracy

- Dependable readings

**Custom Ordering Information**—Items in **Bolded Green Type** are preferred with shorter lead times.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	<b>R</b>	<b>C</b>				<b>0</b>	<b>A</b>						<b>0</b>	<b>0</b>	

**3. Sheath O.D. (inch)** \_\_\_\_\_  
 G = 0.125  
**H = 0.188**  
 J = 0.250

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

**5. Fittings** \_\_\_\_\_  
 If required, enter order code from pages 39 to 40.  
**If none, enter "0".**

**6. Enter "0"** \_\_\_\_\_

**7. Sheath Construction** \_\_\_\_\_  
**A = 316SS**

**8-9. Sheath Length "L" (inch)** \_\_\_\_\_  
**02, 04 and 06**  
 Whole inches: 02 to 36

**10. Sheath Length "L" (fractional inch)** \_\_\_\_\_  
**0 = No fraction, whole inches**  
 1 = 1/8      3 = 3/8      5 = 5/8      7 = 7/8  
 2 = 1/4      4 = 1/2      6 = 3/4

**11. Element** \_\_\_\_\_  
 2-wire      3-wire  
 100Ω Single      A      B

**12. Temperature Coefficient** \_\_\_\_\_  
 DIN 0.00385  
**A = Class A**  
**B = Class B**

**13-14. Enter "00"** \_\_\_\_\_

**15. Special Requirements** \_\_\_\_\_  
 0 = None  
 X = Special requirements, consult factory