



## STATOR RTD Temperature Sensor

### Specifications

- Variety of Configurations
- Single and Dual Elements
- Custom Designs Available with:
  - » Specific Dimensions
  - » Side Exit
  - » Paddle Style
  - » High Accuracy
  - » Special Cable or Leadwires

The Stator RTD Sensor is a rectangular, flat, laminated sensors commonly called “Stator Sticks” because they are inserted between the coils in the stator of a motor. These averaging type sensors are used in electric motors and generators for continuous sensing of the temperature and provide for consistent thermal monitoring without false alarms. Many sizes are in stock or we can customize for your application. Measurement Specialties’ Stator RTD sensors are built to meet the specifications of ANSI C50.10-1990, general requirements for synchronous motors. We can build to your specifications!

### Features

- Rear Exit, Epoxy Glass Laminated
- Elements, Single and Dual:
  - » Platinum, Copper, Nickel
- Custom Body Thickness: .030” to .375”
  - » Standard: .030”, .050”, .078”, .093”, .125”
- Custom Body Widths: .250” to 2.50”
  - » Standard: .260”, .305”, .344”, .455”, .500”, .625”
- Leadwire/Cable Options

### Applications

- Electric Motors
- Generators

### Performance Specifications

**Dielectric Strength:**

Class F: 3,000 volts RMS @ 60 Hz for 1 minute,  
between leads and external body surface  
Class H: 2,000 volts RMS @ 60 Hz for 1 minute,  
between leads and external body surface

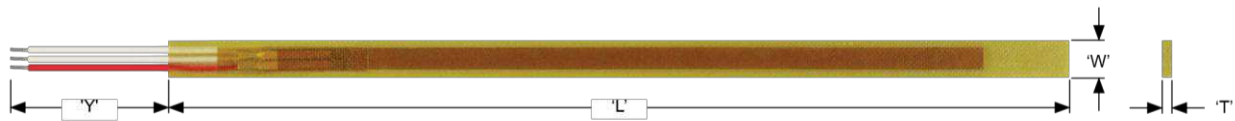
**Temperature Limits:**

Class F: 155°C (311°F)  
Class H: 180°C (356°F)

**RTD Leadwires:**

Two Wire, Three Wire or Four Wire  
Standard: Stranded Copper plated wire with PTFE insulation  
Other leadwire coverings available

### Dimensions



'L' = Body Length  
'W' = Body Width  
'T' = Body Thickness  
'Y' = Leadwire/Cable Length

# STATOR RTD

Temperature Sensor

## Ordering Information

Stator RTD Sensor, Rear Exit				
Model	Classification	Temperature Limit	Material	Dielectric Strength
300F	Class F	155°C	Epoxy Glass	3,000 Volts
300H	Class H	180°C	Epoxy Glass	2,000 Volts
Model	Element	Accuracy	Temperature Coefficient	
P2B	Platinum	100 Ohm ±.12% at 0°C	.00385	
P2C	Platinum	100 Ohm ±.5% at 0°C	.00385	
P2D	Platinum	100 Ohm ±.2% at 0°C	.00385	
G2C	Platinum	100 Ohm ±.5% at 0°C	.00392	
C1D	Copper	10 Ohm ±.2% at 25°C	.00427	
N3C	Nickel	120 Ohm ±.5% at 0°C	.00672	
Model	'L' Body Length			
----	Define 'L' Length in Inches Example: 10.00 = 10.00"; 6.25 = 6.25"			
Model	Leadwires, Element Configuration			Color Code
2S	Two Wire, Single			Red/White
3S	Three Wire, Single			Red/White/White
4S	Four Wire, Single			Red/Red/White/White
3D	Three Wire, Dual			Red/White/White // Blue/Yellow/Yellow
Model	'T' Body Thickness	Standard Leadwires		
A	.030"	30 AWG		
B	.050"	26 AWG		
C	.078"	22 AWG		
D	.093"	22 AWG		
E	.125"	22 AWG		
F	.093"	22 AWG, Jacketed Cable		
G	.125"	22 AWG, Jacketed Cable		
H	.030"	26 AWG (0.050" Thick at Lead Exit)		
Model	'Y' Leadwire/Cable Options			
----	Define 'Y' Length in Inches (120 = 120.0")			
Model	'W' Body Width			
A	.260" (Single Element Only)			
B	.305" (Single Element Only)			
C	.344" (Single Element Only)			
D	.455" (Single Element Only)			
E	.500"			
F	.625"			

Stocked Part Numbers*	
Part Number	Model Number
R-1630	320M C1D 3S 36 A 1
R-2428	320M P2C 3S 96 A 1
R-10224-16	320M P2C 3S 180 A 1
R-10494-3	320M C1D 3S 96 A 1
R-12269-6	322M G2C 3S 96 A 1
R-12269-8	322M P2C 3S 96 A 1

\* Please consult factory for availability.

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