MEAS STATOR RTD

Temperature Sensor

- 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. Our 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

- Industrial
- Electric Motors
- Generators

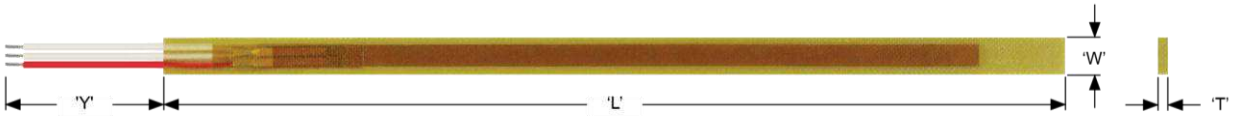
Performance Specifications

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

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 Whole Inches (120 = 120.0"; 036 = 36.0”)

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-8203	300H C1D 10.00 3S H 180 A
R-8204	300H P2C 10.00 3S H 180 A
R-8205	300H N3C 10.00 3S H 180 A
R-7119	300H P2C 10.00 3S C 180 B
R-1802	300H C1D 10.00 3S C 036 B
R-8949-34	300F G2C 11.00 3S B 096 C
R-5156	300F G2C 12.00 3S B 096 C
R-7124	300H C1D 6.00 3S H 180 A
R-7123	300H N3C 6.00 3S H 180 A
R-10256-23	300H P2C 10.00 3D A 096 E

* Please consult factory for availability.