



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

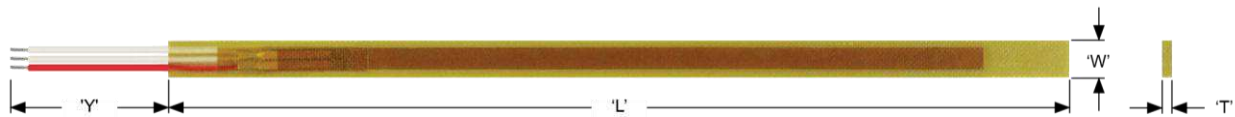
Temperature Limits:

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.



TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.