



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

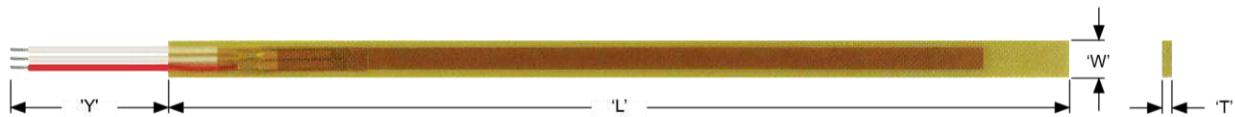
Temperature Limits:

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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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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