



MODEL 300H

STATOR RTD (REAR EXIT)

- Variety of Configurations
- Single and Dual Elements
- Wide Range of Widths and Thicknesses

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 you can customize for your specific application. Our Stator RTD sensors are built to meet the specifications of ANSI C50.10-1990, general requirements for synchronous motors.

Features

- Rear Exit, Epoxy Glass Laminated
- Elements, Single and Dual:
 - » Platinum, Copper, Nickel
 - » Standard Body Thickness: .030", .050", .078", .093", .125"
- Custom Body Widths: .260" to 1.00"

Applications

- Industrial
- Electric Motors
- Generators

Performance Specifications

Dielectric Strength:

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

Temperature Limits:

Class H: 180°C (356°F)

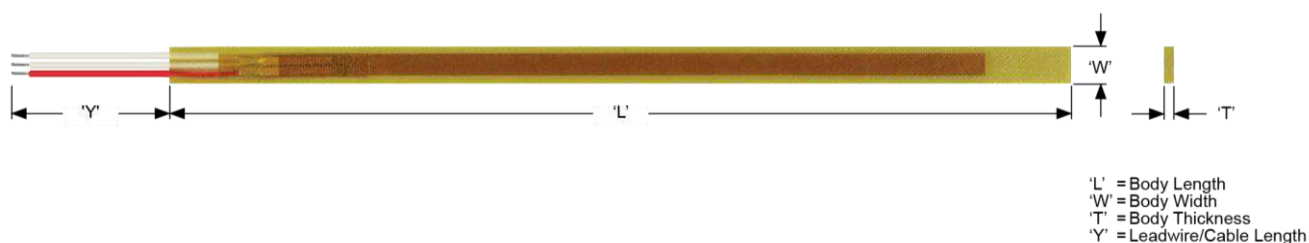
RTD Leadwires:

Two Wire, Three Wire, or Four Wire

Standard: Stranded Silver Plated Copper Wire with PTFE Insulation

RTD TEMPERATURE ACCURACY SPECIFICATIONS				
Element Material	TCR	Standard Tolerances at 0°C		
		±.12%	±.2%	±.5%
Platinum	0.00385	0.30°C, 0.12Ω	0.50°C, 0.19Ω	1.20°C, 0.46Ω
Platinum	0.00392	N/A	N/A	1.20°C, 0.46Ω
Copper	0.00427	N/A	0.71°C, 0.028Ω	1.49°C, 0.058Ω
Nickel	0.00672	N/A	N/A	0.85°C, 0.68Ω

Dimensions



Configuration Model Number

300H - _ - _ . _ - _ - _ - _ . _

Element / Accuracy

P2B	Platinum 100 Ohm $\pm 0.12\%$ at 0°C Temp Coefficient: .00385
P2C	Platinum 100 Ohm $\pm 0.5\%$ at 0°C Temp Coefficient: .00385
P2D	Platinum 100 Ohm $\pm 0.2\%$ at 0°C Temp Coefficient: .00385
G2C	Platinum 100 Ohm $\pm 0.5\%$ at 0°C Temp Coefficient: .00392
C1D	Copper 10 Ohm $\pm 0.2\%$ at 25°C Temp Coefficient: .00427
N3C	Nickle 120 Ohm $\pm 0.5\%$ at 0°C Temp Coefficient: .00672

Body Length 'L'

##.##	Define 'L' Length in Inches Minimum 6.00" / Maximum 44.00" Ex: (7.50" = 07.50; 12.00" = 12.00)
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Lead Wires / Element Configuration

2S	2 Wire Single (Red/White)
3S	3 Wire Single (Red/White/White)
4S	4 Wire Single (Red/Red/White/White)
3D	3 Wire Dual (Red/White/White & Blue/Yellow/Yellow)

Body Width 'W'

###	Define 'W' Width in Inches Minimum .260" / Maximum 1.00" for single element staters only. Minimum .500" / Maximum 1.00" for dual element staters only. Example: (.260" = 0.260; 1.00" = 1.000)
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Lead Wire Length 'Y'

###	Define 'Y' Length in Whole Inches Note: Minimum 6" / Maximum 120" Example: (6" = 006; 96" = 096)
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Body Thickness 'T' and Lead wire Gage

A	.030 inches	30AWG
B	.050 inches	26AWG
C	.078 inches	22AWG
D	.093 inches	22AWG
E	.125 inches	22AWG