THE GUND COMPANY

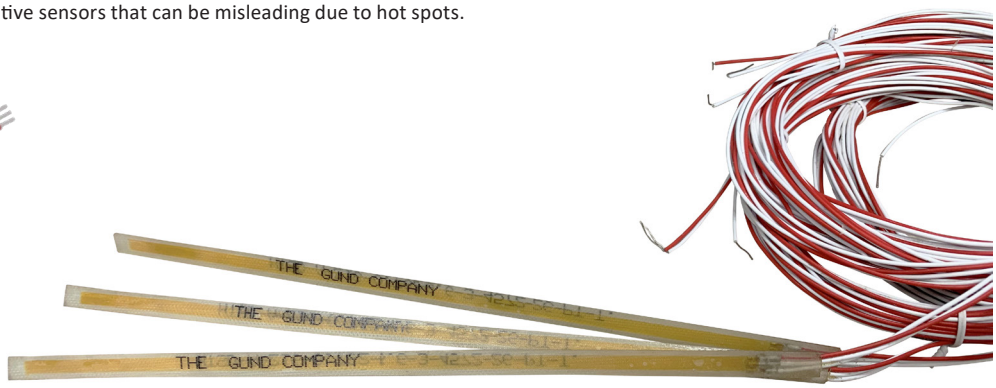
MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

Stator RTDs

Resistance Temperature Detectors

Embedded temperature monitoring of motors and generators is a long-time industry-accepted practice. It allows for continuous assessment of equipment conditions. This embedded method of monitoring utilizes specially designed Resistance Temperature Detectors (RTDs) and Thermocouples (T/Cs) placed outside the major insulation - as specified in ANSI C50-10-1990 - the sensing element of RTDs in the stator winding slots. The extended length of our RTD sensor element design - sometimes exceeding 20 inches in body length - offers improved averaging of the measurement process over a wider area of the slot length.
This benefit eliminates the problems related to tip-sensitive sensors that can be misleading due to hot spots.

RTD Single Element Paddle

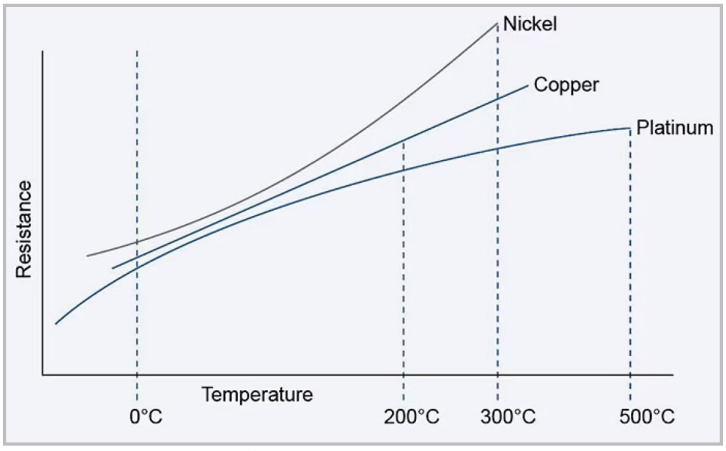


RTD Dual Element Paddles

PROPERTIES

PART ID	Dimensions	Rating	Element	Resistance	Number of Elements	Lead Wire Length	Number of Wires	Lead Wire Gauge	Lead Wire Coating
RTD1A2540.7626.6P3457226PTS	10"L x 0.260"W x 0.030"T	Class H	Platinum	100 Ωm ± 0.5% @ 0°C	1	15 ft.	3	26 AWG	PTFE
RTD1A2540.7626.6C3457226PTS	10"L x 0.260"W x 0.030"T	Class H	Copper	10 Ωm ± 0.5% @ 0°C	1	15 ft.	3	26 AWG	PTFE
RTD1A2540.7626.6N3457226PTS	10"L x 0.260"W x 0.030"T	Class H	Nickel	120 Ωm ± 0.5% @ 0°C	1	15 ft.	3	26 AWG	PTFE
RTD2A3050.76213.2P3457226PTS	12"L x 0.520"W x 0.030"T	Class H	Platinum	100 Ωm ± 0.5% @ 0°C	2	15 ft.	6	26 AWG	PTFE
RTD2A4570.76213.2P3457226PTS	18"L x 0.520"W x 0.030"T	Class H	Platinum	100 Ωm ± 0.5% @ 0°C	2	15 ft.	6	26 AWG	PTFE

ELEMENT TYPE	Base Resistance	TCR (Ohm/Ohm/°C)
Platinum	100	0.00385
Nickel	120	0.00672
Copper	10	0.00427



RTD Resistance versus Temperature

The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

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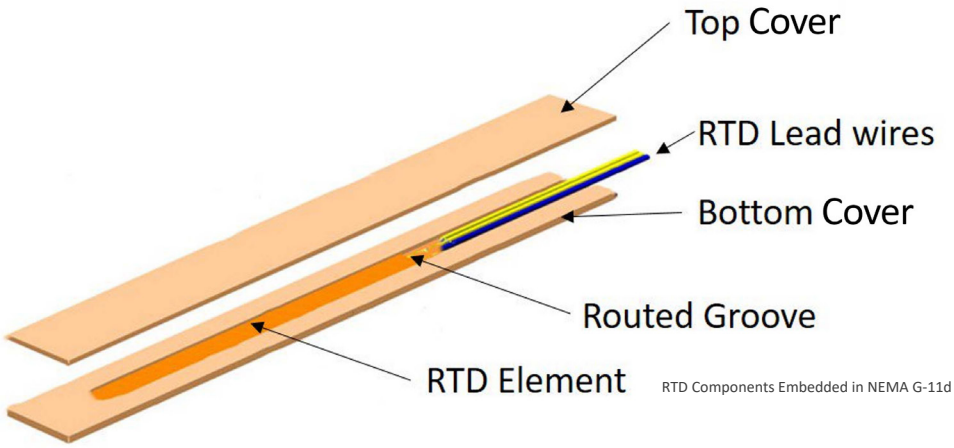
Stator RTDs

Resistance Temperature Detectors Enclosure Types

RTD EMBEDDING MATERIALS

RTDs can be embedded in either NEMA G-11 or The Gund Company's semi-conductive materials up to 109 inches for installation into the stator of your application.
NEMA G-11 provides mechanical protection for the RTD during the installation phase and protects the RTD throughout its life span.
The semi-conductive material offers the same mechanical protection with the added benefit of corona dissipation.

G-11 AND SEMI-CONDUCTIVE RIGID ENCLOSURE ELEMENTS



RTD Components Embedded in NEMA G-11d

RTD Embedded in C109

RTD TESTING

RTDs can be tested upon request up to 3000 VRMS @ 60 Hz
for one minute between lead wire and enclosure body.

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