

RTD Sensors— Fast Response

Exposed RTD Element with Fiberglass Insulated Lead Wires



- ✓ Thermal Response (63%)
Less Than 1 Second
- ✓ Operating Ranges:
-30 to 300°C (-22 to
572°F) Class A Thin Film
Element Styles, -100 to
450°C (-148 to 842°F)
Class A Wire Wound
Element Styles
- ✓ 1 m (40") Long 2-, 3-,
or 4-Wire #26 AWG
Stranded Nickel Plated
Copper, Fiberglass
Insulated and Jacketed
Cable Constructions
Available
- ✓ Ceramic Cement
Insulating Element to
Cable Connection



RTD-2-1PT100KN2528-36-G
shown actual size.

To Order			
Model No.	Resistance at 0° and Accuracy	Element Size	Element Type
RTD-2-F3105-36-G	100 ±0.06 Ω, Class A	2 W x 2 mm L	Thin film
RTD-2-F3102-36-G	100 ±0.06 Ω, Class A	4 W x 5 mm L	Thin film
RTD-2-1PT100KN2515-36-G	100 ±0.06 Ω, Class A	1.5 Dia. x 25 mm L	Wire wound
RTD-2-1PT100KN2528-36-G	100 ±0.06 Ω, Class A	2.8 Dia. x 25 mm L	Wire wound
RTD-2-F3145-36-G	1000 ±0.60 Ω, Class A	2 W x 2 mm L	Thin film
RTD-2-F3142-36-G	1000 ±0.60 Ω, Class B	4 W x 5 mm L	Thin film

For 2-wire, replace "2" in model number with "1" and subtract cost from price. For 4-wire assembly, replace "2" in model number with "3" and add cost to price. For longer leads, change "-36" in model number to length in inches and add cost for 3- and 4-wire cables or 2-wire cables to the price. For spade style terminal lugs standard termination in stripped leads, add "-LUG" to the model number for additional cost. For connectors (3-wire only) add "-OTP" to the model number for full sized connector or "-MTP" for miniature connector for additional cost.

Ordering Examples: RTD-3-F3105-36-G, 100 Ω, 2 x 2 mm, thin film Pt100 RTD element, Class A accuracy with 4-wire fiberglass insulated cable 1 m (40") long with ceramic cement over connection and stripped leads.

RTD-2-1PT100KN2515-36-G-MTP, 100 Ω, 1.5 Dia. x 25 long mm, Pt100 wire wound element, Class A accuracy with 3-wire fiberglass insulated cable 1 m (40") long with ceramic cement over connection and miniature 3-pin connector.

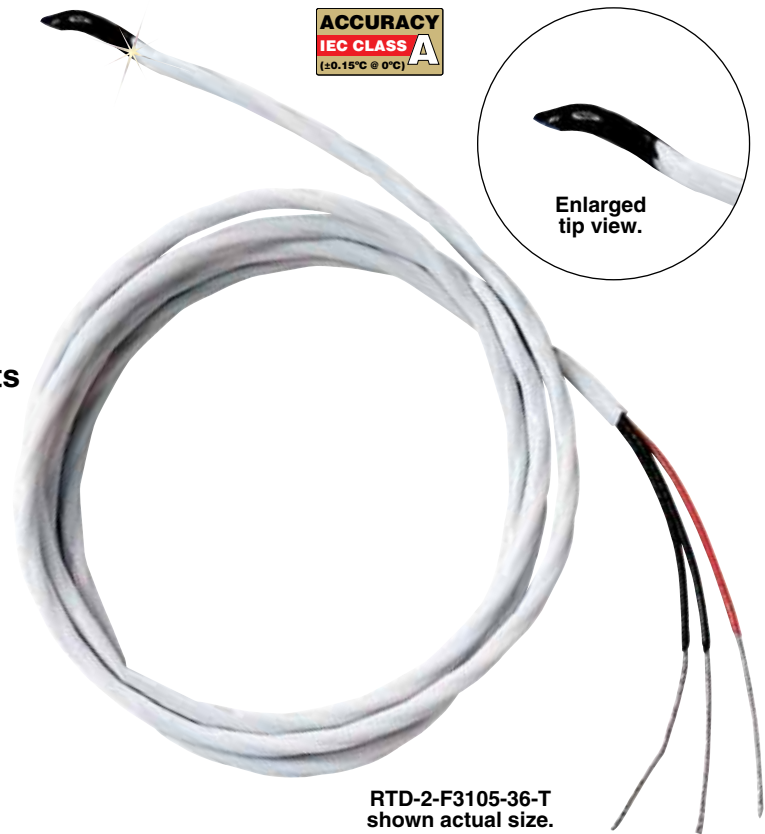
<p>Popular Options Include:</p> <p>DP25B-RTD 1/2 DIN panel meter.</p>	<p>OM-DAQPRO-5300 handheld data logger.</p>	<p>HH804U, handheld meter.</p>	<p>OMEGABOND® high temp chemical set cements.</p>
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RTD Sensors— Fast Response Exposed RTD Element with PFA Lead Wires



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- ✓ Thermal Response (63%)
Less Than 1 Second
- ✓ High Accuracy Class A, Pt100 and Pt1000 RTD Elements Standard
- ✓ Higher Accuracy $\frac{1}{3}$ and $\frac{1}{10}$ DIN Elements Are Available in Some Styles*
- ✓ Operating Range: -30 to 260°C (-22 to 500°F) Class A Thin Film Element Styles, -100 to 260°C (-148 to 500°F) Class A Wire Wound Element Styles
- ✓ 1 m (40") Long 2-, 3- or 4-Conductor #26 AWG Stranded Nickel Plated Copper, PFA Insulated and Jacketed Cable Constructions Available
- ✓ Epoxy Potting Insulating Element to Cable Connection



RTD-2-F3105-36-T shown actual size.

* Note: Temperature range for $\frac{1}{3}$ DIN is 0 to 150°C (32 to 302°F) and temperature range for $\frac{1}{10}$ DIN is 0 to 100°C (32 to 212°F). Also, note 4-wire configuration only for $\frac{1}{10}$ DIN.

To Order			
Model No.	Resistance at 0° and Accuracy	Element Size	Element Type
RTD-2-F3105-36-T	100 ±0.06 Ω, Class A	2 W x 2 mm L	Thin film
RTD-2-F3102-36-T	100 ±0.06 Ω, Class A	4 W x 5 mm L	Thin film
RTD-2-1PT100KN2515-36-T	100 ±0.06 Ω, Class A	1.5 Dia. x 25 mm L	Wire wound
RTD-2-1PT100KN2528-36-T	100 ±0.06 Ω, Class A	2.8 Dia. x 25 mm L	Wire wound
RTD-2-F3145-36-T	1000 ±0.60 Ω, Class A	2 W x 2 mm L	Thin film
RTD-2-F3142-36-T	1000 ±0.60 Ω, Class B	4 W x 5 mm L	Thin film

For 2-wire, replace "2" in model number with "1" and subtract cost from price. For 4-wire assembly, replace "2" in model number with "3" and add cost to price. For $\frac{1}{3}$ DIN accuracy, add "-1/3" to end of model number for additional cost. For $\frac{1}{10}$ DIN accuracy, add "-1/10" to the model number for additional cost. (Note: $\frac{1}{10}$ DIN option is only available in 4-wire construction). For longer leads, change "-36" in model number to length in inches and add cost for 3- and 4-wire cables, or 2-wire cables, for an additional cost. For spade style terminal lugs standard termination in stripped leads, add "-LUG" to the model number for additional cost. For connectors (3-wire only) add "-OTP" to the model number for full sized connector, or "-MTP" for miniature connector for additional cost.

Ordering Examples: RTD-3-F3105-36-T-1/3, 100 Ω, 2 x 2 mm, thin film Pt100 RTD element, $\frac{1}{3}$ DIN accuracy with 4-wire PFA insulated cable 1 m (40") long with epoxy over connection and stripped leads.

RTD-2-1PT100KN2515-36-T-MTP, 100 Ω, 1.5 Dia. x 25 mm long mm, Pt100 wire wound element, Class A accuracy with 3-wire PFA insulated cable 1 m (40") long with epoxy over connection and miniature 3-pin connector.

Popular Options Include:



CN1A temperature controller.

HE-XT105
PLC/HMI
all-in-one.



OM-SQ2010 data logger.

RTD Sensors— Fast Response Exposed RTD Element with Bare Lead Wires

ACCURACY
IEC CLASS A
(±0.15°C @ 0°C)

- ✓ Thermal Response (63%) Less Than 1 Second
- ✓ Operating Ranges:
-30 to 300°C
(-22 to 572°F)
Class A Thin Film Element Styles,
-100 to 450°C
(-148 to 842°F)
Class A Wire Wound Element Styles
- ✓ 1 m (40") Long 2-, 3-, or 4-Wire #26 AWG Solid Nickel Wire



RTD-2-1PT100KN2528-36-B
shown actual size.

To Order			
Model No.	Resistance at 0° and Accuracy	Element Size	Element Type
RTD-2-F3105-36-B	100 ±0.06 Ω, Class A	2 W x 2 mm L	Thin film
RTD-2-F3102-36-B	100 ±0.06 Ω, Class A	4 W x 5 mm L	Thin film
RTD-2-1PT100KN2515-36-B	100 ±0.06 Ω, Class A	1.5 Dia. x 25 mm L	Wire wound
RTD-2-1PT100KN2528-36-B	100 ±0.06 Ω, Class A	2.8 Dia. x 25 mm L	Wire wound
RTD-2-F3145-36-B	1000 ±0.60 Ω, Class A	2 W x 2 mm L	Thin film
RTD-2-F3142-36-B	1000 ±0.60 Ω, Class B	4 W x 5 mm L	Thin film

For 2-wire, replace "2" in model number with "1" and subtract cost from price. For 4-wire assembly, replace "2" in model number with "3" and add cost to price. For longer leads, change "-36" in model number to length in inches and add cost for 3- and 4-wire cables or 2-wire cables for additional cost.

Ordering Examples: RTD-3-F3105-36-B, 100 Ω, 2 x 2 mm, thin film Pt100 RTD element, Class A accuracy with 4-wire bare conductors, 1 m (40") long with no ceramic cement over connection and stripped leads.

RTD-2-1PT100KN2515-36-B, 100 Ω, 1.5 Dia. x 25 long mm, Pt100 wire wound element, Class A accuracy with 3-wire bare conductors, 1 m (40") long with no ceramic cement over connection.

Popular Options Include:

FBGS-N-24 fiberglass sleeving.

OM-CP-OCTRTD data logger.

FRX-02018 thermocouple insulators.

OMEGABOND® high temp chemical set cements.

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