

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 Visit omega.com/rtd-2-f3105 for Pricing and Details

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 A	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.

Popular Options Include:



DP25B-RTD ½ DIN panel meter,
see omega.com.



OM-DAQPRO-5300
handheld
data logger,
see omega.com.



HH804U,
handheld
meter, see
omega.com.



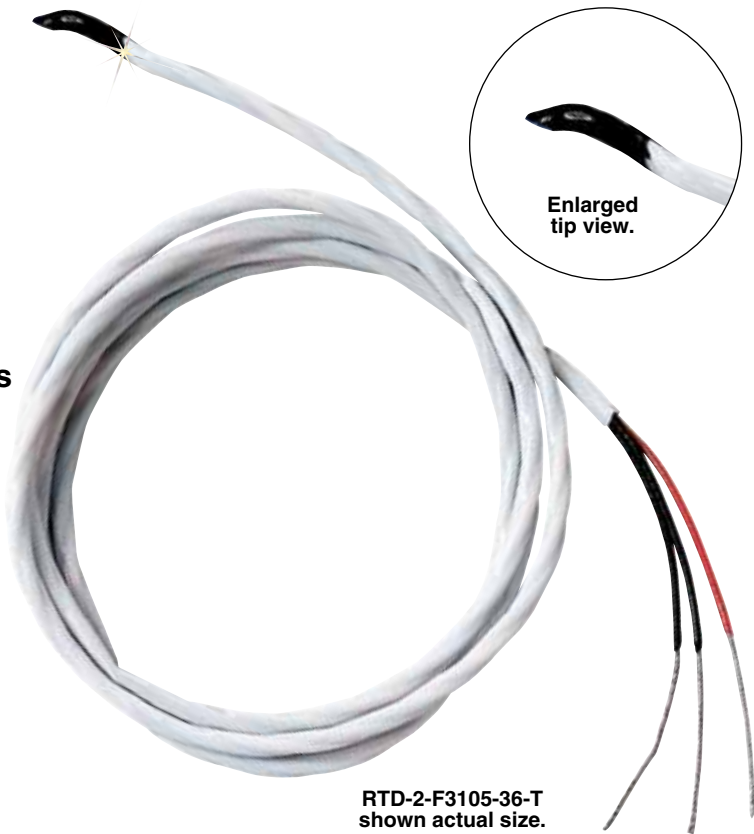
OMEGABOND®
high temp chemical
set cements, visit
omega.com/ob_bond_chem_set

RTD Sensors—Fast Response

Exposed RTD Element with PFA Lead Wires



- ✓ Thermal Response (63%)
Less Than 1 Second
- ✓ High Accuracy Class A, Pt100 and Pt1000 RTD Elements Standard
- ✓ Higher Accuracy 1/3 and 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



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

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

To Order Visit omega.com/rtd-2-f3105 for Pricing and Details			
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 A	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 1/3 DIN accuracy, add “-1/3” to end of model number for additional cost. For 1/10 DIN accuracy, add “-1/10” to the model number for additional cost. (Note: 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, 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 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, see omega.com.

HE-XT105 PLC/HMI all-in-one, see omega.com.

CN3271-R1 high/low limit controller, see omega.com.

OM-SQ2010 data logger, see omega.com.

RTD Sensors—Fast Response

Exposed RTD Element with Bare 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 Solid Nickel Wire



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

To Order Visit omega.com/rtd-2-f3105 for Pricing and Details

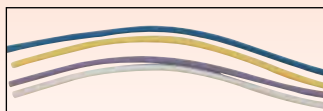
Model No.	Resistance at 0° and Accuracy	Element Size	Element Type
RTD-2-F3105-36-B	100 $\pm$ 0.06 Ω , Class A	2 W x 2 mm L	Thin film
RTD-2-F3102-36-B	100 $\pm$ 0.06 Ω , Class A	4 W x 5 mm L	Thin film
RTD-2-1PT100KN2515-36-B	100 $\pm$ 0.06 Ω , Class A	1.5 Dia. x 25 mm L	Wire wound
RTD-2-1PT100KN2528-36-B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

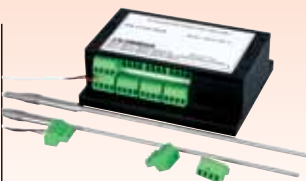
Ordering Examples: RTD-3-F3105-36-B, 100 Ω , 2 x 2 mm, thin film Pt100 RTD element, Class A accuracy with 4-wire bare conductors, 1 m (40") long with no ceramic cement over connection and stripped leads.

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, visit omega.com/fbgs



OM-CP-OCTRTD data logger, visit omega.com/om-cp-octrtd



FRX-02018 thermocouple insulators, see omega.com.



OMEGABOND® high temp chemical set cements, visit omega.com/ob_bond_chem_set