RTD Sensors—Fast Response Exposed RTD Element with Lead Wires

- Thermal Response (63%) Less Than 75 Milliseconds in Water Flowing at 3 Feet per Second
- High-Accuracy Class "A", 100 Ω DIN Platinum **Elements Standard**
- Ultra Precise Accuracy 1/3 and 1/10 DIN, and **Economical Class "B"** Also Available*
- Operating Range Up to 480°C (900°F) Available
- 1 m (40") Long 2-, 3-, or 4-Wire #26 AWG Cables for Connecting to Most Handheld Instruments

Starts at MADE IN ACCURACY USA IEC CLASS **OMEGACAL**[™] **Factory CAL AVAILABLE** See Section I Thin-Film Sensing Element. 1 m (40") long PFA or fiberglass insulated Omega Exclusive cable allows use at temperatures up to 480°C (900°F). Class "A" Standard Stripped leads standard. BTD-2-F3105-36-T shown actual size.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Mod	el Number)				
Model Number	Element	Lead Wire	Potting Material	Maximum Temperature	
RTD-2-F3105-36-T, shown actual RTD-(*)-F3105-36-T	F3105 (2 x 2 mm)	PFA	Ероху	230°C (450°F)	
RTD-(*)-F3102-36-T	F3102 (4 x 5 mm)	PFA	Ероху	230°C (450°F)	
A second second				K	-
RTD-2-F3102-36-G provides large	er measuring area (2x) th	an the F3105 (sh	own larger th	an actual size)	-
RTD-2-F3102-36-G provides large RTD-(*)-F3105-36-G	<mark>r measuring area (2x) th</mark> F3105 (2 x 2 mm)	<mark>an the F3105 (sh</mark> Fiberglass		an actual size) 480°C (900°F)	
RTD-2-F3102-36-G provides large	er measuring area (2x) th	an the F3105 (sh	own larger th	an actual size)	
RTD-2-F3102-36-G provides large RTD-(*)-F3105-36-G	<mark>er measuring area (2x) th</mark> F3105 (2 x 2 mm) F3102 (4 x 5 mm)	<mark>an the F3105 (sh</mark> Fiberglass Fiberglass	<mark>own larger th</mark> Ceramic Ceramic	an actual size) 480°C (900°F) 480°C (900°F)	
RTD-2-F3102-36-G provides large RTD-(*)-F3105-36-G	<mark>er measuring area (2x) th</mark> F3105 (2 x 2 mm) F3102 (4 x 5 mm)	<mark>an the F3105 (sh</mark> Fiberglass	<mark>own larger th</mark> Ceramic Ceramic	an actual size) 480°C (900°F) 480°C (900°F)	
RTD-2-F3102-36-G provides large RTD-(*)-F3105-36-G	<mark>er measuring area (2x) th</mark> F3105 (2 x 2 mm) F3102 (4 x 5 mm)	<mark>an the F3105 (sh</mark> Fiberglass Fiberglass	<mark>own larger th</mark> Ceramic Ceramic	an actual size) 480°C (900°F) 480°C (900°F)	
RTD-2-F3102-36-G provides large RTD-(*)-F3105-36-G	r measuring area (2x) th F3105 (2 x 2 mm) F3102 (4 x 5 mm)	<mark>an the F3105 (sh</mark> Fiberglass Fiberglass	<mark>own larger th</mark> Ceramic Ceramic	an actual size) 480°C (900°F) 480°C (900°F)	
RTD-2-F3102-36-G provides large RTD-(*)-F3105-36-G RTD-(*)-F3102-36-G	r measuring area (2x) th F3105 (2 x 2 mm) F3102 (4 x 5 mm)	<mark>an the F3105 (sh</mark> Fiberglass Fiberglass	<mark>own larger th</mark> Ceramic Ceramic	an actual size) 480°C (900°F) 480°C (900°F)	

available with wire wound elements and 4-wire o

Note: For longer leads, change "-36" in model number to length desired and add /ft (styles 2 and 3) or /ft (style 1). Other RTD elements are also available with lead wires attached; consult Sales. Accuracies of ½ and ½ DIN are only available in 1PT100K2515 and 1PT100KN2528 wire-wound elements and require 4-wire construction. For ½ DIN, add ; for ½ DIN, add Terminations available: For "-LUG" add , for "-OTP" and "-MTP" connectors add To order sensors with bare wires and conne for use to 600°C (1112°F), replace "-T" or "-G" with "-B" in model number.

To order sensors with bare wires and connections

Ordering Examples: RTD-3-1PT100K2515-36-T-1/3, 1PT100K2515 ½ DIN accuracy element with 1 m (40") of 4-conductor PFA insulated cable attached (epoxy potted), RTD-3-F3102-72-G, F3102 class "A" element with 2 m (72") of 4-conductor fiberglass-insulated cable attached (ceramic potting),

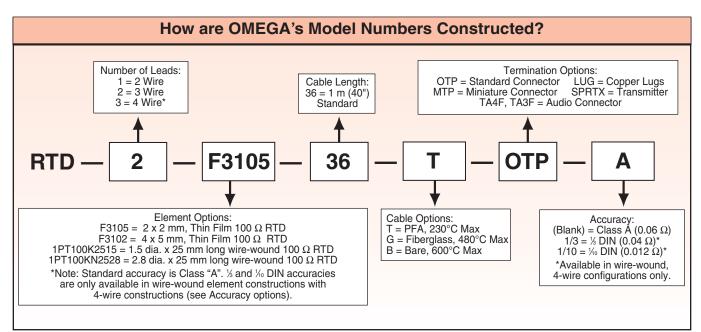
- Class "B"* Accuracy Available for High Volume, Lower Cost Applications. Also Available in Economical 5-Packs (See page C-30)
- Model Numbers Shown Available from Stock
- Choose from a Large Selection of Elements, Terminations, and Optional Equipment

Available Accuracies in Ohms @ 0°C \checkmark Class "A" = ±0.06 Ω (standard) \checkmark ½ DIN = ±0.04 Ω^* \checkmark Class "B" = ±0.12 Ω \checkmark ½ DIN = ±0.012 Ω^*

*Note: $\frac{1}{2}$ and $\frac{1}{2}$ DIN available only with 1PT100K2515 and 1PT100KN2528 wire-wound elements in 4-wire configurations. See accuracy formulas on page C-84 or C-9 for additional information.



Need a different resistance, temperature coefficient, cable length, cable type? Use the Model Number Builder below to go beyond our stock product offering to construct the sensor that meets your specific needs. You can also visit our online store at **omega.com**, select "Order by Model Number," and simply enter the model number and length modifications to automatically obtain price and availability.



Ordering Example: RTD-2-F3105-36-G

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