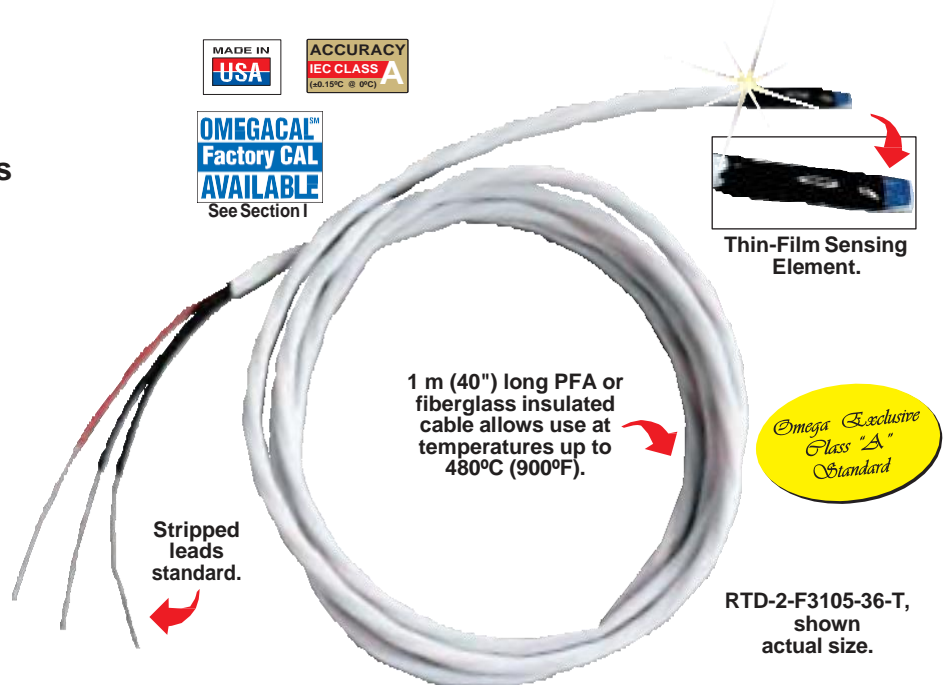





# RTD Sensors—Fast Response

## 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



  MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)							
Model Number	Element	Lead Wire	Potting Material	Maximum Temperature	Price		
					Style 1 (2 wire)	Style 2 (3 wire)	Style 3 (4 wire)
							
RTD-2-F3105-36-T, shown actual size							
RTD-(*)-F3105-36-T	F3105 (2 x 2 mm)	PFA	Epoxy	230°C (450°F)			
RTD-(*)-F3102-36-T	F3102 (4 x 5 mm)	PFA	Epoxy	230°C (450°F)			
							
RTD-2-F3102-36-G provides larger measuring area (2x) than the F3105 (shown larger than actual size)							
RTD-(*)-F3105-36-G	F3105 (2 x 2 mm)	Fiberglass	Ceramic	480°C (900°F)			
RTD-(*)-F3102-36-G	F3102 (4 x 5 mm)	Fiberglass	Ceramic	480°C (900°F)			
							
RTD-2-1PT100K2515-36-T, shown larger than actual size							
RTD-(*)-1PT100K2515-36-T	1PT100K2515	PFA	Epoxy	230°C (450°F)			
RTD-(*)-1PT100KN2528-36-T	1PT100KN2528	PFA	Epoxy	230°C (450°F)			

\* 1/3B and 1/10B DIN accuracies only available with wire wound elements and 4-wire configurations.

**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 1/3 and 1/10 DIN are only available in 1PT100K2515 and 1PT100KN2528 wire-wound elements and require 4-wire construction. For 1/3 DIN, add ; for 1/10 DIN, add Terminations available: For “-LUG” add, for “-OTP” and “-MTP” connectors add. To order sensors with bare wires and connections for use to 600°C (1112°F), replace “-T” or “-G” with “-B” in model number.

**Ordering Examples:** RTD-3-1PT100K2515-36-T-1/3, 1PT100K2515 1/3 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).

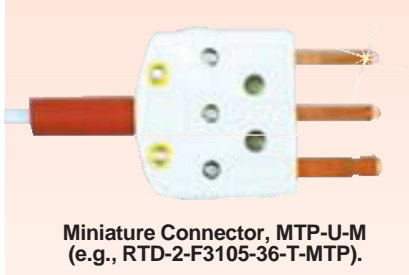
**Class "B" Accuracy Available for High Volume, Lower Cost Applications. Also Available in Economical 5-Packs (See page C-30) Model Numbers Shown Available from Stock Choose from a Large Selection of Elements, Terminations, and Optional Equipment**

**Available Accuracies in Ohms @ 0°C**

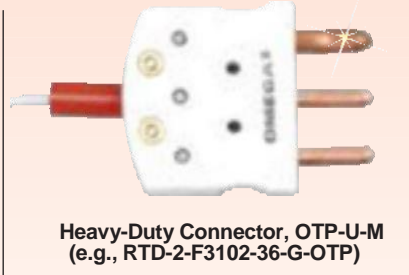
Class "A" =  $\pm 0.06 \Omega$  (standard)       $\frac{1}{3}$  DIN =  $\pm 0.04 \Omega^*$   
 Class "B" =  $\pm 0.12 \Omega$        $\frac{1}{10}$  DIN =  $\pm 0.012 \Omega^*$

**\*Note:**  $\frac{1}{3}$  and  $\frac{1}{10}$  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.

Termination options are available for easy operation in conjunction with OMEGA handheld thermometers or other instruments:



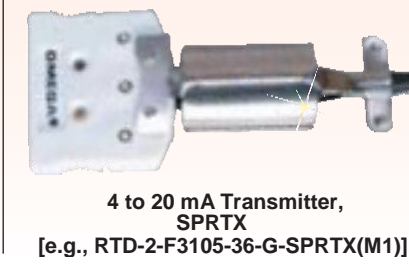
Miniature Connector, MTP-U-M (e.g., RTD-2-F3105-36-T-MTP).



Heavy-Duty Connector, OTP-U-M (e.g., RTD-2-F3102-36-G-OTP)



Connectors, TA3F, TA4F (e.g., RTD-2-F3105-36-T-TA3F).



4 to 20 mA Transmitter, SPRTX [e.g., RTD-2-F3105-36-G-SPRTX(M1)].

Turn these sensors into complete measurement systems with the following popular instrument options:

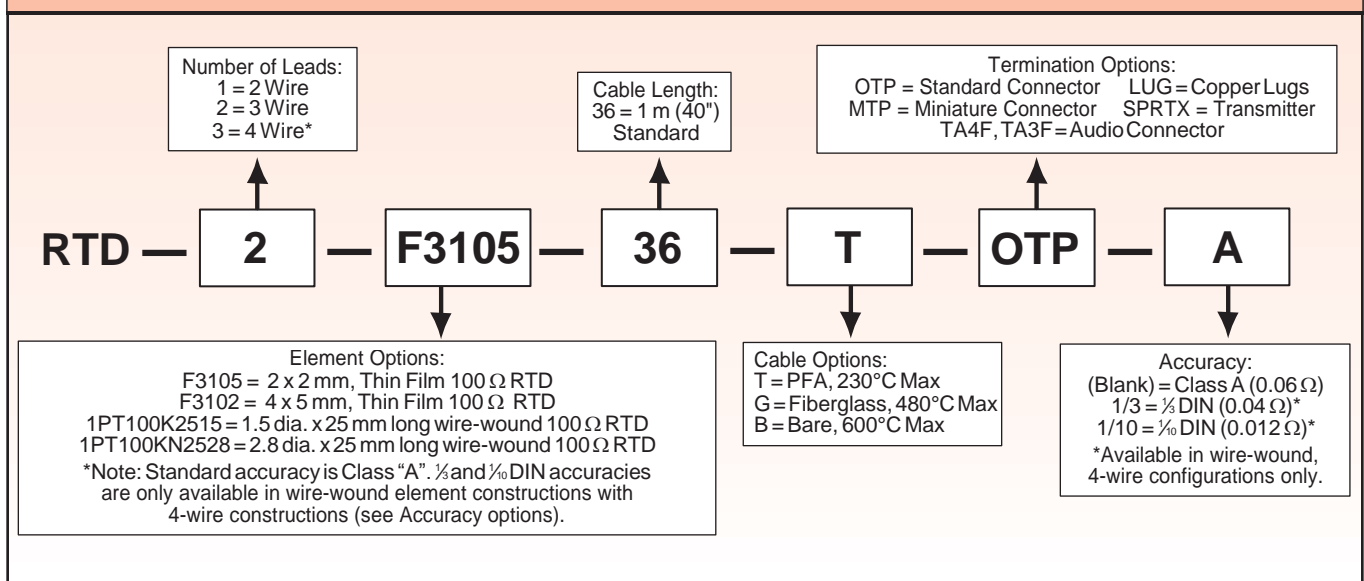


HH504 Thermometer Note: Requires Two MTP-U-M Connectors (Included).

HH505 Thermometer, Note: MTP-U-M Connector (Included).

**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](http://omega.com), select "Order by Model Number," and simply enter the model number and length modifications to automatically obtain price and availability.

**How are OMEGA's Model Numbers Constructed?**



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





#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
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