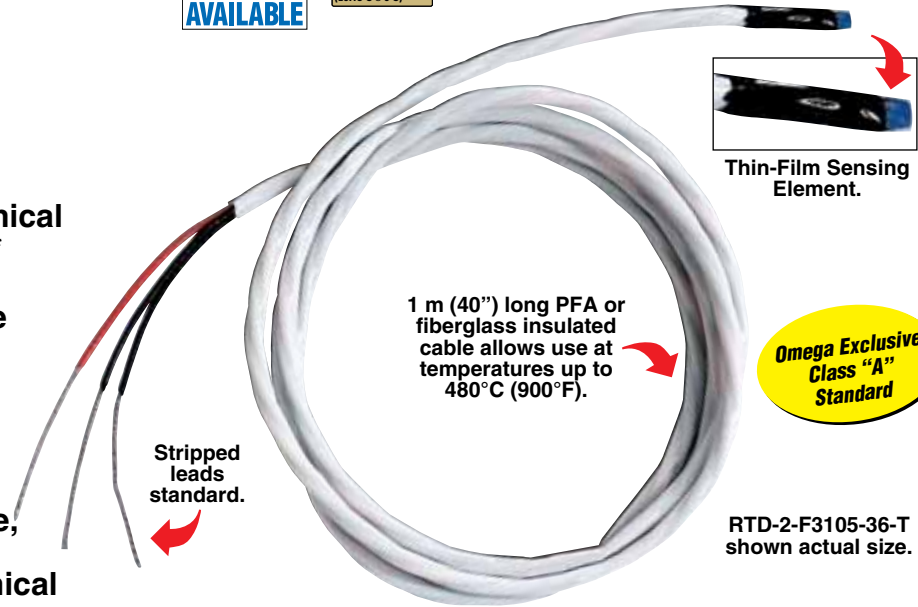


# RTD Sensors—Fast Response Exposed RTD Element with Lead Wires

- ✓ 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
- ✓ Class “B”\*\* Accuracy  
Available for High Volume,  
Lower Cost Applications.  
Also Available in Economical  
5-Packs (Visit Us Online)

**OMEGACAL<sup>SM</sup>**  
Factory CAL  
AVAILABLE

**ACCURACY**  
IEC CLASS **A**  
(±0.15°C @ 0°C)






Thin-Film Sensing Element.

1 m (40”) long PFA or fiberglass insulated cable allows use at temperatures up to 480°C (900°F).

**Omega Exclusive Class “A” Standard**

Stripped leads standard.

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

To Order				
Model Number	Element	Lead Wire	Potting Material	Maximum Temperature
				
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 (2 x 4 mm)	PFA	Epoxy	230°C (450°F)
RTD-(*)-1PT100KN2528-36-T	1PT100KN2528	PFA	Epoxy	230°C (450°F)
RTD-(*)-1PT100K2515-36-T	1PT100K2515	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 (2 x 4 mm)	Fiberglass	Ceramic	480°C (900°F)
				
RTD-2-1PT100K2515-36-T, shown larger than actual size				
RTD-(*)-1PT100K2515-36-T	1PT100K2515	Fiberglass	Ceramic	480°C (900°F)
RTD-(*)-1PT100KN2528-36-T	1PT100KN2528	Fiberglass	Ceramic	480°C (900°F)

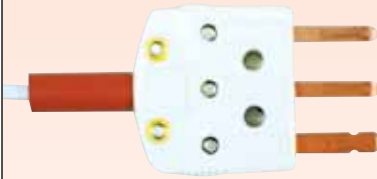
\*1/3B and 1/10B DIN accuracies only available with wire wound elements and 4-wire configurations.

**Note:** For longer leads, change “-36” in model number to length desired for an additional cost per foot for all styles. 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. Additional cost for 1/3 DIN and 1/10 DIN.

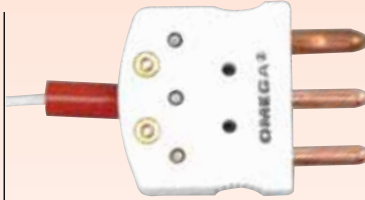
Terminations available for an additional cost: “-LUG”, “-OTP” and “-MTP” connectors. To order sensors with bare wires and connections for use to 600°C (1112°F), replace “-T” or “-G” with “-B” in model number.

**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).

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)).



HH804U complete high accuracy RTD thermometer with 2 DIN connectors (included) shown smaller than actual size.

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 =  $\pm 0.012 \Omega^*$

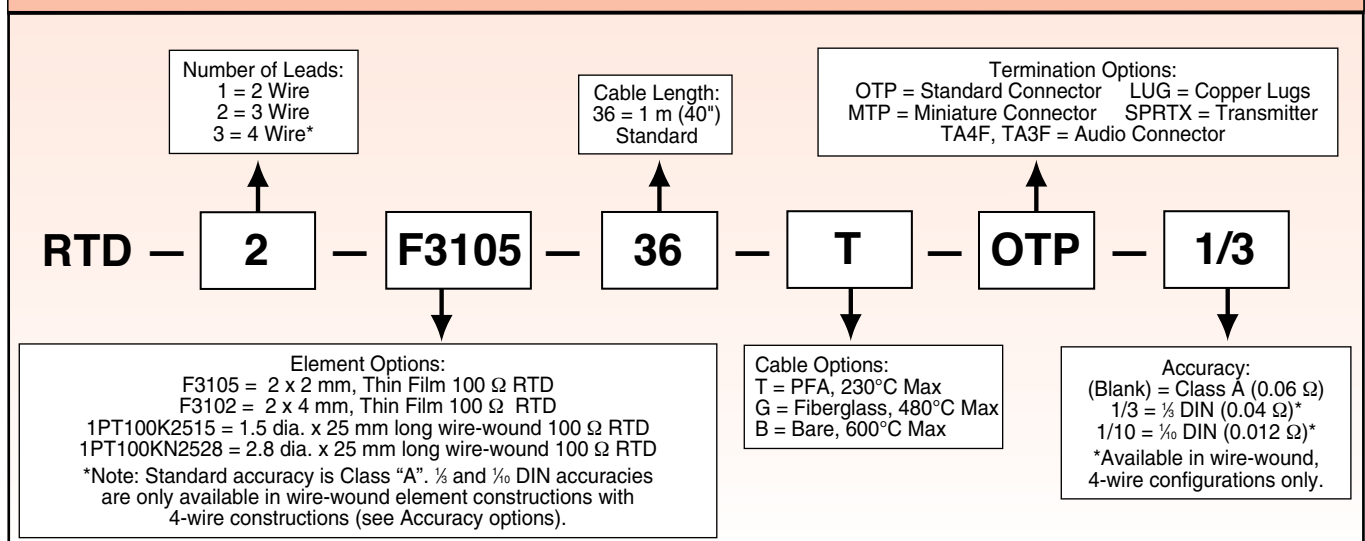
\* Note:  $\frac{1}{3}$  and  $\frac{1}{10}$  DIN available only with 1PT100K2515 and 1PT100KN2528 wire-wound elements in 4-wire configurations. See accuracy formulas online for additional information.

### To Order

Model No.	HH804U	HH804W	HH804
Units	°C/°F	°C/°F	°C/°F
Display Elapsed Time	Dual 4½ digit + Elapsed Time	Dual 4½ digit + Elapsed Time	Dual 4½ digit + Elapsed Time
No. of RTD Inputs	2	2	2
Wireless	No	Yes	No
USB Port	Yes	No	No
DC Power Jack	Yes	No	Yes
Resolution		0.1°/0.2°F	

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, 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.