

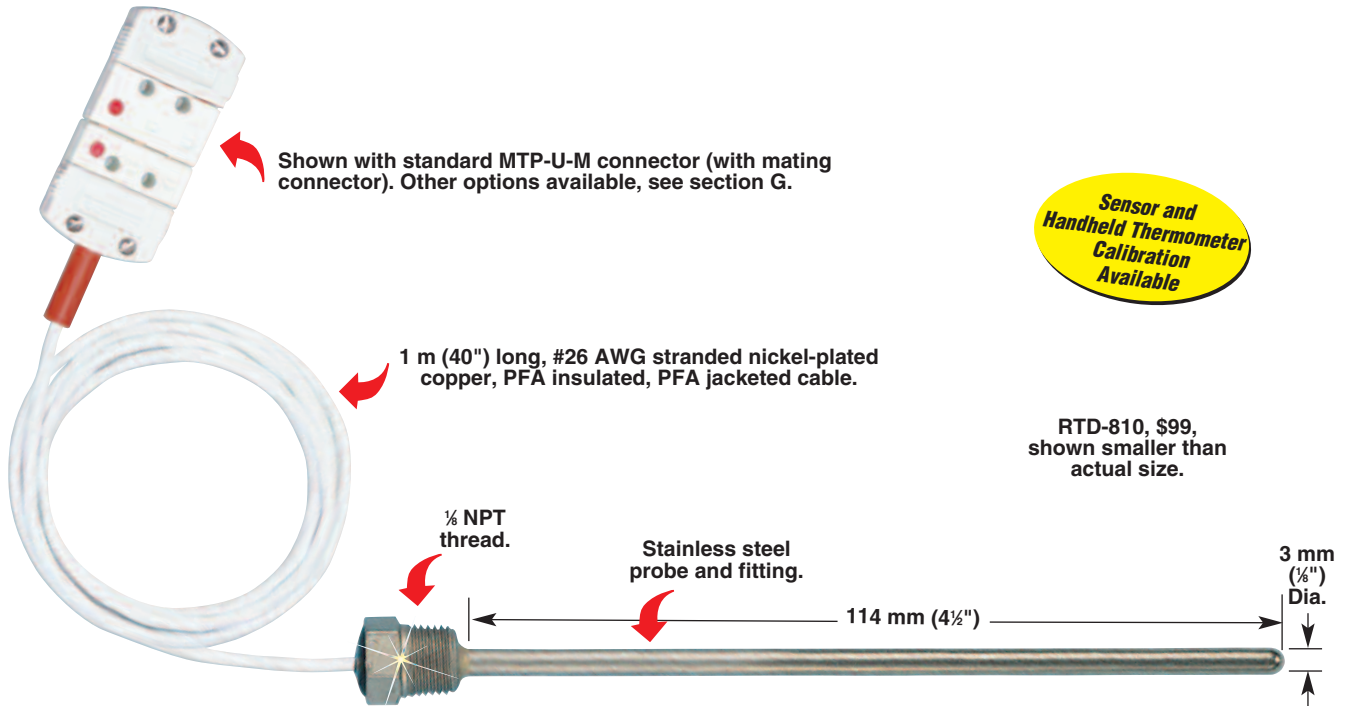
# High-Accuracy Fluid Immersion RTD Sensors

## For Use in Monitoring Temperature in Fluid and Pressurized Applications

Starts at  
**\$79**



- ✓ Provided with High-Accuracy Class “A” 100 Ω Element (Standard)
- ✓ Stainless Steel Probe Stem and Mounting Fitting (1/8 NPT) Provided
- ✓ Usable Temperature Range: -200 to 750°C (Cable to 232°C)
- ✓ 3-Wire Construction for Connecting to Most Instruments



Sensor and Handheld Thermometer Calibration Available

**MOST POPULAR MODEL HIGHLIGHTED!**

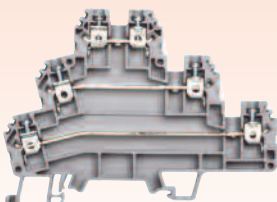
### To Order (Specify Model Number)

Model Number	Sensing Element	Cable	Max Temperature	Price
<b>RTD-810</b>	100 Ω Class “A” DIN	1 m (40") Long PFA Insulated	750°C (Cable 232°C)	<b>\$79</b>
RTD-810-OTP	100 Ω Class “A” DIN	1 m (40") Long PFA with OTP Connector	750°C (Cable 232°C)	86
RTD-810-TA3F	100 Ω Class “A” DIN	1 m (40") Long PFA with TA3F Connector	750°C (Cable 232°C)	96

**Terminations Available:** Provided with standard miniature connector; for larger sized connector, add “-OTP” to model number and \$7 to price; for audio connector, add “-TA3F” to model number and \$17 to price.

**Ordering Example:** RTD-810-OTP, Class “A” accuracy with heavy-duty connector, \$79 + 7 = \$86. RTD-810-TA3F, Class “A” accuracy with audio connector, \$79 + 17 = \$96.

### Popular Options Include:



PUK-2T-10PK DIN rail terminal block, \$30/10 pack, see [newportUS.com/terminal-blocks](http://newportUS.com/terminal-blocks)



DRF-RTD DIN rail mountable signal conditioner, \$180, see [newportUS.com/drf-rtd](http://newportUS.com/drf-rtd)



HH804U, handheld, \$149, see page L-17.



TX86 transmitter with built-in indicator, \$339, see page N-13.

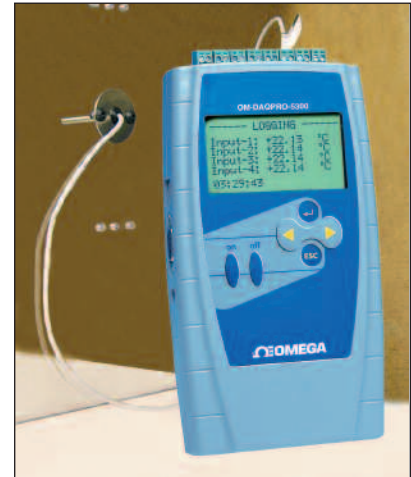
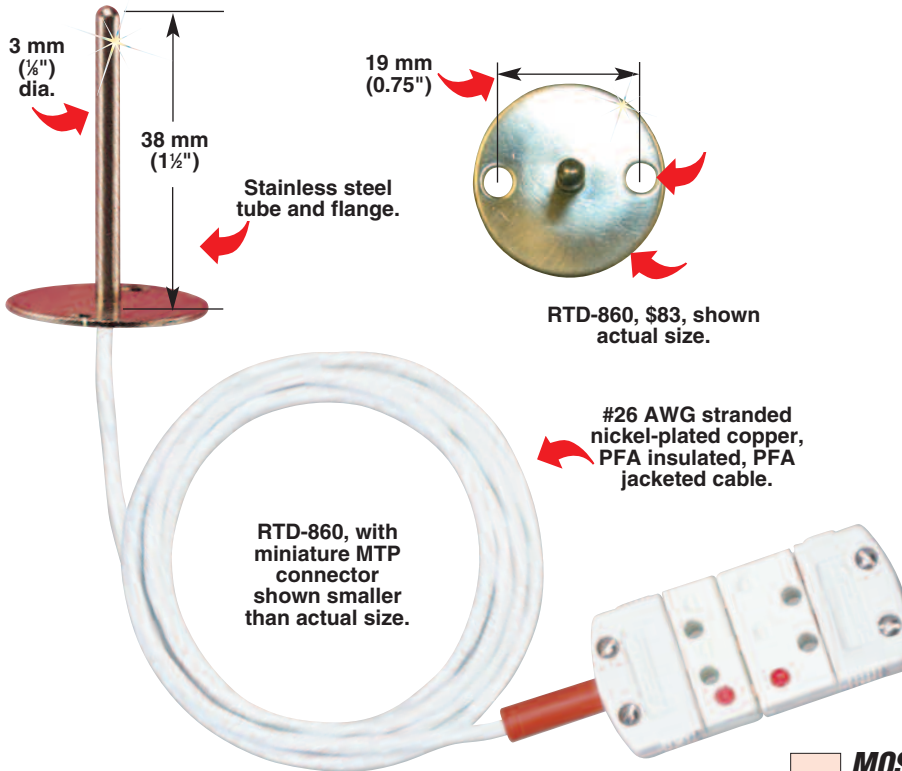
# Precision RTD Probes for Laboratory Applications

## For Measuring Temperature in Gas and Air Applications

Starts at  
**\$83**



- ✓ High-Accuracy 100 Ω Class “A” DIN Platinum Element Standard
- ✓ Includes Stainless Steel Flange and Sheath for Easy Installation
- ✓ 3-Wire Construction for Connecting to Most Instruments



Shown smaller than actual size with optional OM-DAQPRO-5300, \$995, see page R-25.

Supplied with miniature MTP style connector. Other connectors also available, see section G.

**MOST POPULAR MODEL HIGHLIGHTED!**

### To Order (Specify Model Number)

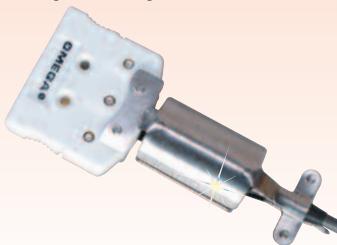
Model Number	Sensing Element	Cable	Max Temperature	Price
<b>RTD-860</b>	100 Ω Class “A” DIN	1 m (40") Long PFA Insulated	230°C (450°F)	<b>\$83</b>
RTD-860-OTP	100 Ω Class “A” DIN	1 m (40") Long PFA with OTP Conn.	230°C (450°F)	90
RTD-860-SPRTXM1	100 Ω Class “A” DIN	1 m (40") Long PFA SPRTX-MTH	230°C (450°F)	158

**Terminations Available:** Provided with standard miniature connector; for larger sized connector add “-OTP” to model number and \$7 to price; for audio connector add “-TA3F” to model number and \$17 to price.

**Ordering Examples:** RTD-860-OTP, Class “A” accuracy with standard sized connector, \$83 + 7 = \$90.

RTD-860-TA3F, Class A accuracy with audio connector, \$83 + 17 = \$100.

### Popular Options Include:



SPRTX 4 to 20 mA transmitter, \$75, see page N-33.



CNI3253 controller, \$195, see page P-10.



HE-XT105 PLC/HMI all-in-one, \$1000, see page U-3.



OM-SQ2010 data logger, \$1540, see page R-26.

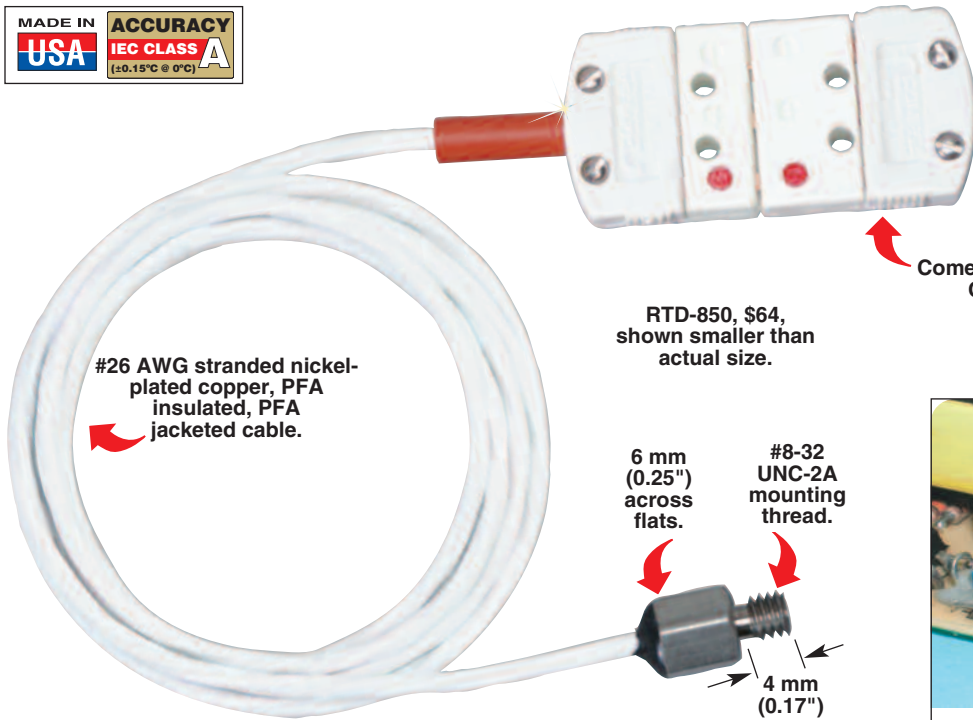
# RTD Sensor with Miniature Housing

## Stud-Mount Construction For Use in Limited Spaces

Starts at  
**\$64**

✓ Stainless Steel Housing with #8-32 Thread Can be Installed in Tight Places

✓ High-Accuracy, 100 Ω, Class "A" DIN Platinum Element Standard  
✓ 3-Wire Construction for Connecting to Most Instruments



#26 AWG stranded nickel-plated copper, PFA insulated, PFA jacketed cable.

RTD-850, \$64, shown smaller than actual size.

Comes standard with MTP connector. Other connectors available, see section G.

6 mm (0.25") across flats.

#8-32 UNC-2A mounting thread.

4 mm (0.17")



Perfect for tight spaces where temperature control is needed.

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

Model Number	Sensing Element	Cable	Max Temperature	Price
RTD-850-TA3F	100 Ω Class "A" DIN	1 m (40") Long PFA Insulated	230°C (450°F)	\$81
RTD-850-SPRTXM1	100 Ω Class "A" DIN	1 m (40") Long PFA Insulated	230°C (450°F)	139
RTD-850	100 Ω Class "A" DIN	1 m (40") Long PFA Insulated	230°C (450°F)	64

**Terminations Available:** Provided with a miniature connector standard. For heavy duty connector add "-OTP" to model number and \$7 to price. For audio connector add "-TA3F" to model number and \$17 to price.

**Ordering Examples:** RTD-850-OTP, 100 Ω Class "A" DIN with heavy-duty connector, \$64 + 7 = \$71.

RTD-850-SPRTX(M1), 100 Ω Class "A" DIN with 4 to 20 mA transmitter, \$64 + 75 = \$139.

### Popular Options Include:



CN1A-TC temperature controller, \$181, see page P-27.



TXDIN1610 universal DIN rail transmitter, \$195, see page N-23.



OM-DAQPRO-5300 handheld data logger, \$995, see page R-25.



DRF-RTD DIN rail mountable signal conditioner, \$180, see [newportUS.com/drf-rtd](http://newportUS.com/drf-rtd)

# Surface Mount RTD Sensor

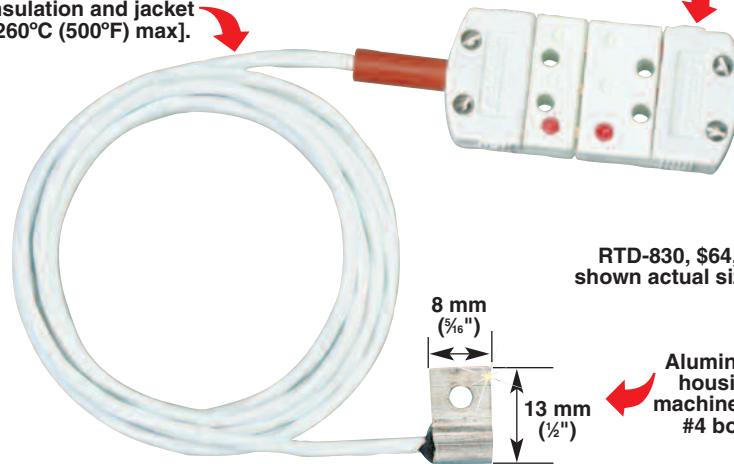
Starts at  
**\$64**



- ✓ Aluminium Housing for Fast Response Time
- ✓ Small Size Can be Installed on Most Flat Surfaces
- ✓ High-Accuracy, 100 Ω, Class "A" DIN Platinum Element
- ✓ 3-Wire Construction for Connecting to Most Handheld Instruments
- ✓ Custom Holes Available; Contact Our Custom Engineering Department

#26 AWG stranded copper wire with PFA insulation and jacket [260°C (500°F) max].

Miniature connector (MTP) style comes with mating connector.



RTD-830, \$64, shown actual size.

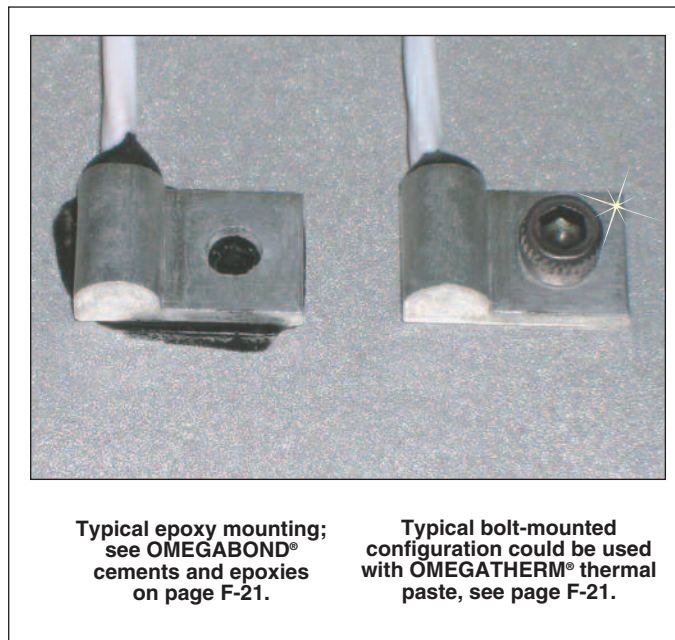
Aluminium housing machined for #4 bolt.

  **MOST POPULAR MODEL HIGHLIGHTED!**

To Order (Specify Model Number)				
Model Number	Sensing Element	Cable	Max Temperature	Price
RTD-830	100 Ω Class "A" DIN	1 m (40") PFA Insulated	230°C (450°F)	\$64
RTD-830-TA3F	100 Ω Class "A" DIN	1 m (40") PFA Insulated	230°C (450°F)	81

**Terminations Available:** Provided with a miniature connector standard, for heavy duty connector add "-OTP" to model number and \$7 to price. For audio connector add "-TA3F" to model number and \$17 to price.

**Ordering Examples:** RTD-830-SPRTX(M1), 100 Ω class "A" DIN with 4 to 20 mA transmitter, \$64 + 75 = \$139.  
RTD-830-TA3F, 100 Ω class "A" with audio connector, \$64 + 17 = \$81.



Typical epoxy mounting; see OMEGABOND® cements and epoxies on page F-21.

Typical bolt-mounted configuration could be used with OMEGATHERM® thermal paste, see page F-21.



OT-201-1/2 high conductive paste, \$15, see page F-21.

OMEGABOND epoxies, starting at \$8, see page F-21.

## How are Model Numbers Constructed?

Termination Options: (Blank) = Miniature Connector (Standard)  
OTP = Heavy-Duty Connector  
TA3F = Audio Connector

LUG = Copper Lugs  
SPRTX = Transmitter

Class "B" also available in economical 3-packs. See page C-68.

RTD — 830 —   **OTP**

Ordering Example: RTD-830-OTP, \$64 + 7 = \$71.

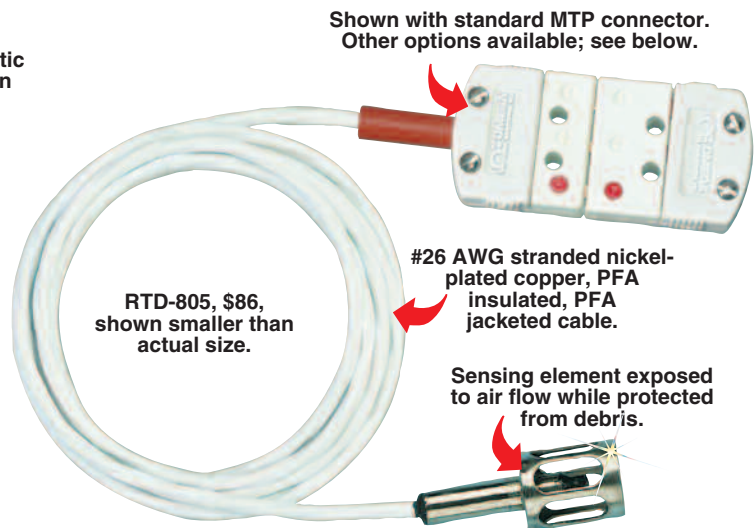
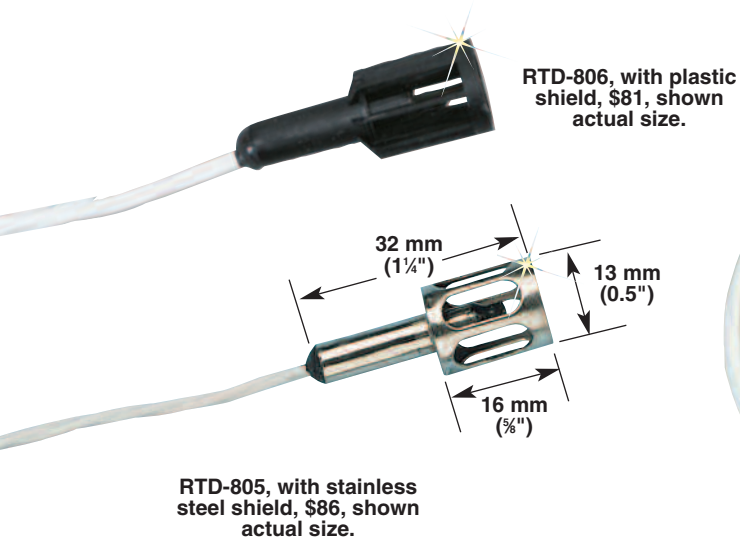
# Air Temperature RTD Sensors

Starts at  
**\$81**



- ✓ For Monitoring of Air and Gas Streams; Mounts in Any Orientation
- ✓ Exposed Sensing Element Has Fast Response Times in Air

- ✓ Available with Stainless Steel or Plastic Housings
- ✓ High-Accuracy, 100 Ω, Class “A” DIN Platinum Element
- ✓ 3-Wire Construction for Connecting to Most Instruments
- ✓ Perfect for Air Temperature Monitoring and Control in Laboratories and Laminar Flow Benches



**MOST POPULAR MODEL HIGHLIGHTED!**

## To Order (Specify Model Number)

Model Number	Sensing Element	Cable	Max Temperature	Price
RTD-805	100 Ω Class “A” DIN	1 m (40") PFA Insulated	230°C (450°F)	\$86
RTD-806	100 Ω Class “A” DIN	1 m (40") PFA Insulated	230°C (450°F)	81

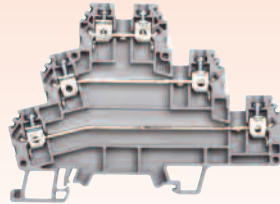
**Terminations Available:** Provided with a miniature connector standard. For heavy-duty connector add “-OTP” to model number and \$7 to price. For audio connector add “-TA3F” to model number and \$17 to price. For terminal lugs add “-LUG” to model number and \$4.50 to price.

**Ordering Examples:** RTD-805-TA3F, 100 Ω class “A” SST housing with terminal lugs, \$86 + 17 = \$103.

## Popular Options Include:



IDRN-RTD digital signal conditioner, \$355, visit [newportUS.com/idrn-idrx](http://newportUS.com/idrn-idrx)



PUK-2T-10PK DIN rail terminal block, \$30/10 pack, see [newportUS.com/terminal-blocks](http://newportUS.com/terminal-blocks)



CN606RTD3 6-zone 1/4 DIN temperature monitor, \$620, see page M-75.



OM-CP-OCTRTD 8-channel data logger, \$999, visit [newportUS.com/om-cp-octrtd](http://newportUS.com/om-cp-octrtd)

## How are OMEGA’s Model Numbers Constructed?

Termination Options: (Blank) = Miniature Connector (Standard)  
 OTP = Heavy-Duty Connector LUG = Copper Lugs  
 TA3F = Audio Connector:

Class “B” also available in economical 3-packs. See page C-68.

RTD — 805 — TA3F  
 RTD — 806 — LUG

**Ordering Example:** RTD-805-TA3F, \$86 + 17 = \$103. RTD-806-SPRTX(M1), \$81 + 75 = \$156.

# Encapsulated RTD Sensors

- ✓ Flat Disc Shape is Ideal for Surface Temperature Measurements
- ✓ Bonds to Surfaces for Measuring Heat Loss or Operating Temperatures

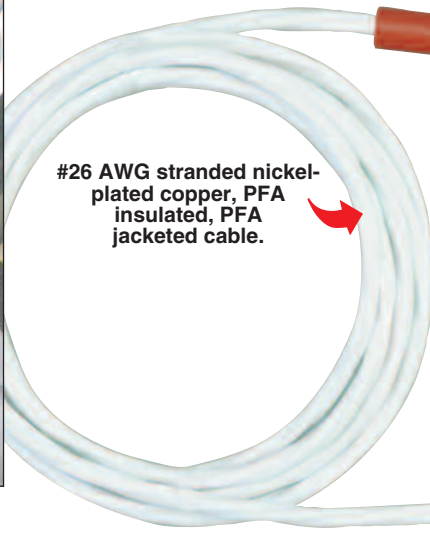
- ✓ High-Accuracy, 100 Ω, Class “A” DIN Platinum Element
- ✓ 3-Wire Construction for Connecting to Most Instruments

C



RTD-809, \$75, shown smaller than actual size.

RTD-809  
\$83



#26 AWG stranded nickel-plated copper, PFA insulated, PFA jacketed cable.



RTD-809, \$83, shown actual size.

Shown with standard MTP style connector. Other connectors available; see Section G.

11 mm (7/16") diameter, 3 mm (1/8") thick sensor for surface mounting.

**AVAILABLE FOR FAST DELIVERY!**

## To Order (Specify Model Number)

Model Number	Sensing Element	Cable	Max Temperature	Price
RTD-809	100 Ω Class “A” DIN	1 m (40") PFA Insulated	230°C (450°F)	\$83

**Terminations Available:** Provided with a miniature connector standard. For heavy-duty connector add “-OTP” to model number and \$7 to price. For audio connector add “-TA3F” to model number and \$17 to price.

**Ordering Example:** RTD-809-TA3F, 100 Ω class “A” DIN with audio connector, \$83 + 17 = \$100.

## Popular Options Include:



DP25B-RTD process meter/controller, \$315, see page M-25.



TX86 transmitter with built-in indicator, \$339, see page N-13.



OM-DAQPRO-5300 handheld data logger, \$995, see page R-25.



OM-CP-QUADRTD 4-channel data logger, \$599, visit [newportUS.com/om-cp-quadrtd](http://newportUS.com/om-cp-quadrtd)

## How are OMEGA’s Model Numbers Constructed?

Termination Options: (Blank) = Miniature Connector (Standard)  
 OTP = Heavy-Duty Connector  
 TA3F = Audio Connector

LUG = Copper Lugs  
 SPRTX = Transmitter

Class “B” also available in economical 3-packs.  
 See page C-68.

RTD — 809 — **OTP**