

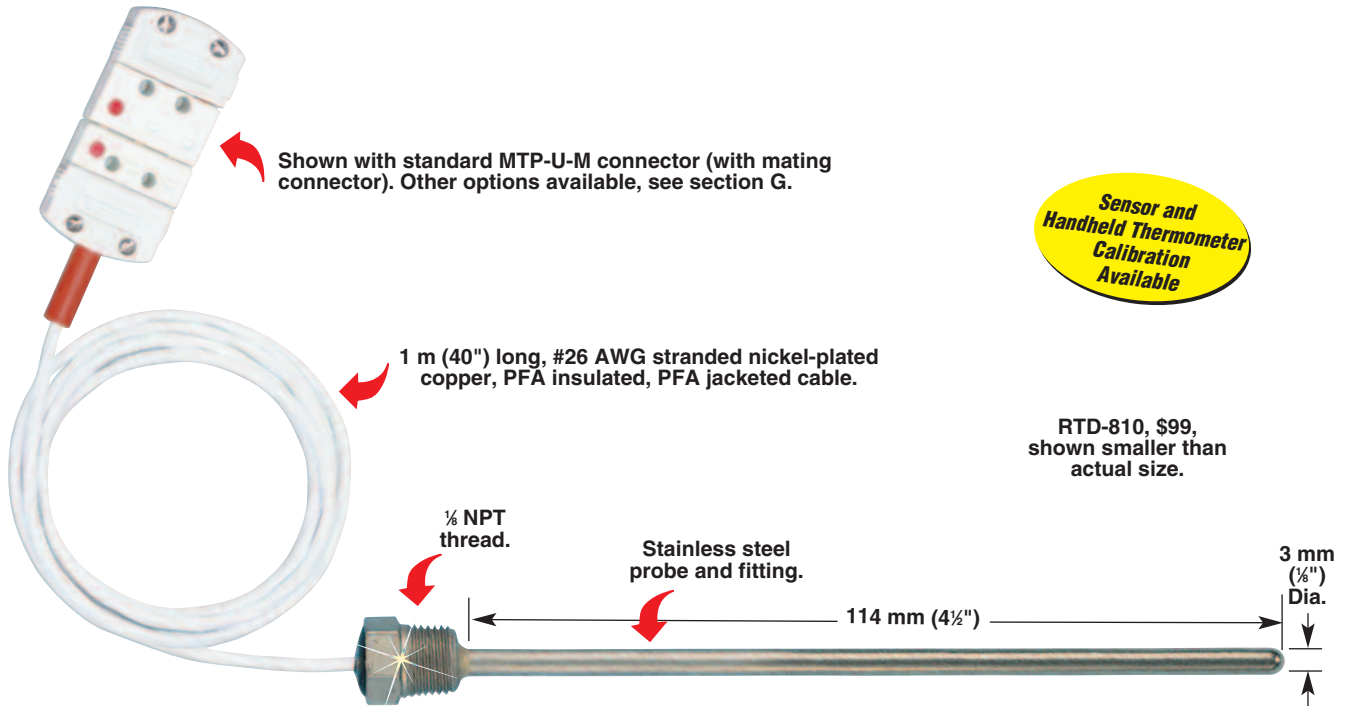
High-Accuracy Fluid Immersion RTD Sensors

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

RTD-810, \$99, shown smaller than actual size.

MOST POPULAR MODEL HIGHLIGHTED!

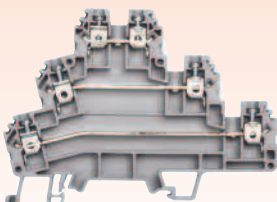
To Order (Specify Model Number)

Model Number	Sensing Element	Cable	Max Temperature	Price
RTD-810	100 Ω Class “A” DIN	1 m (40") Long PFA Insulated	750°C (Cable 232°C)	\$79
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



DRF-RTD DIN rail mountable signal conditioner, \$180, see newportUS.com/drf-rtd



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



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

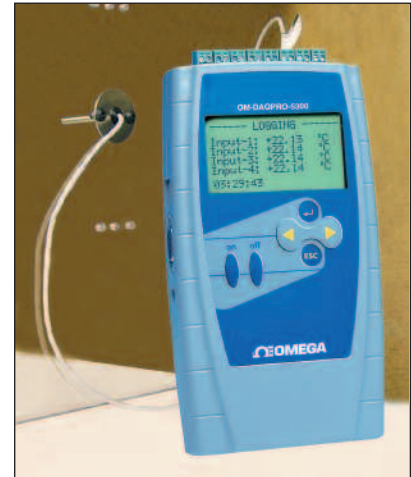
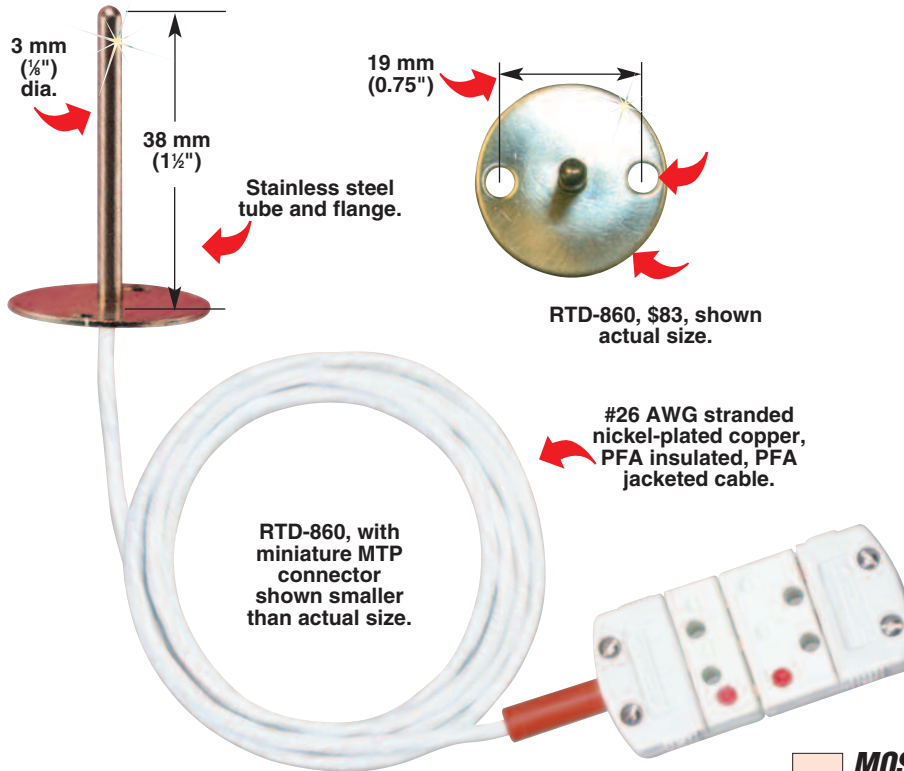
Precision RTD Probes for Laboratory Applications

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)

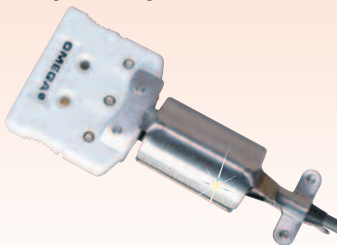
Model Number	Sensing Element	Cable	Max Temperature	Price
RTD-860	100 Ω Class “A” DIN	1 m (40") Long PFA Insulated	230°C (450°F)	\$83
RTD-860-OTP	100 Ω Class “A” DIN	1 m (40") Long PFA with OTP Conn.	230°C (450°F)	90
RTD-860-SPRTXM1	100 Ω Class “A” DIN	1 m (40") Long PFA SPRTX-MTH	230°C (450°F)	158

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

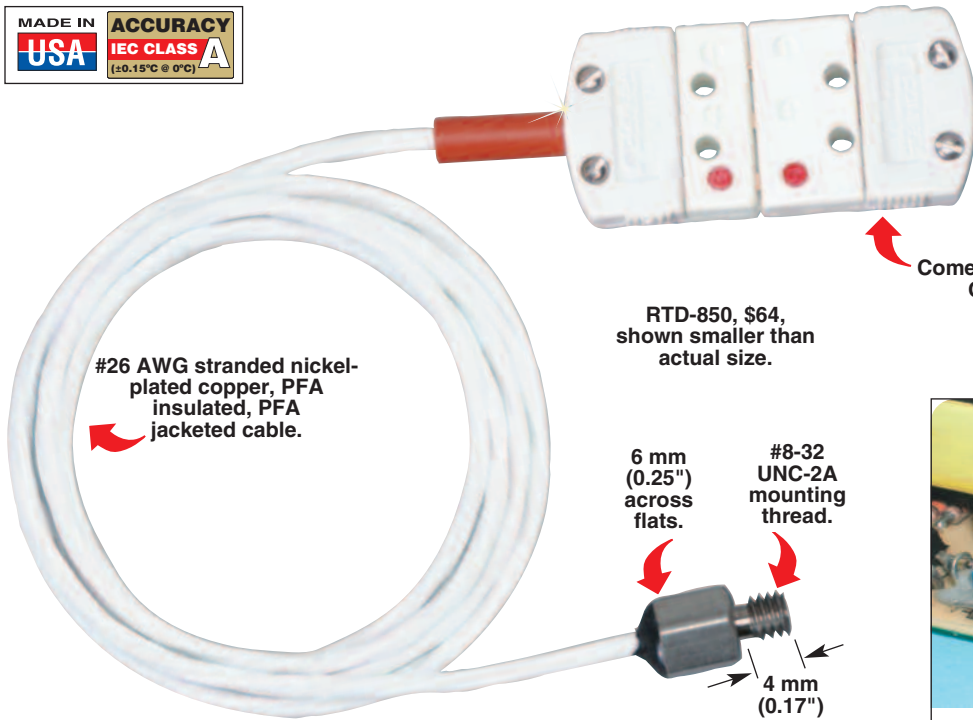
Stud-Mount Construction For Use in Limited Spaces

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**



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

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



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-SPRXTM1	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-SPRXT(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

Surface Mount RTD Sensor

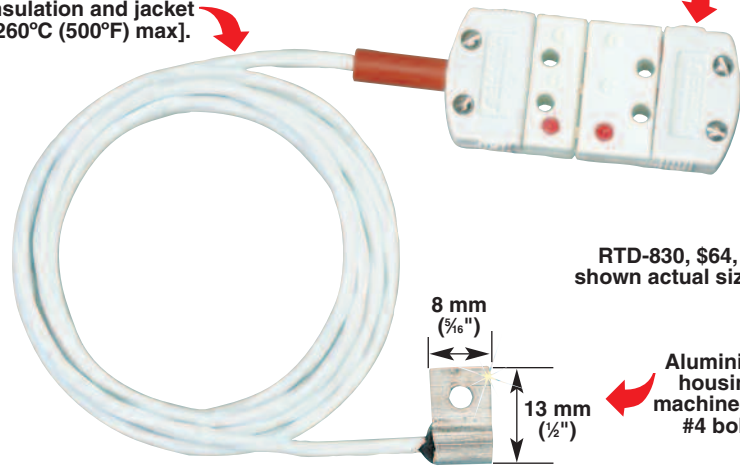
Starts at
\$64



- ✓ 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.

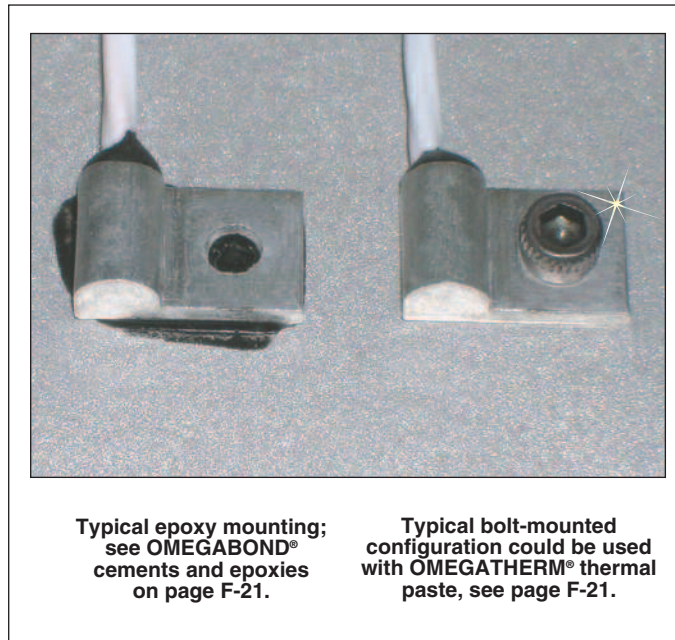
Aluminium housing machined for #4 bolt.

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.

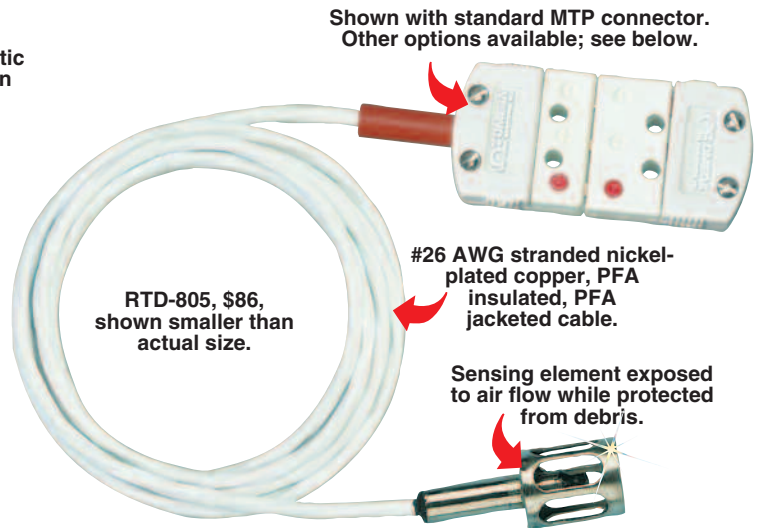
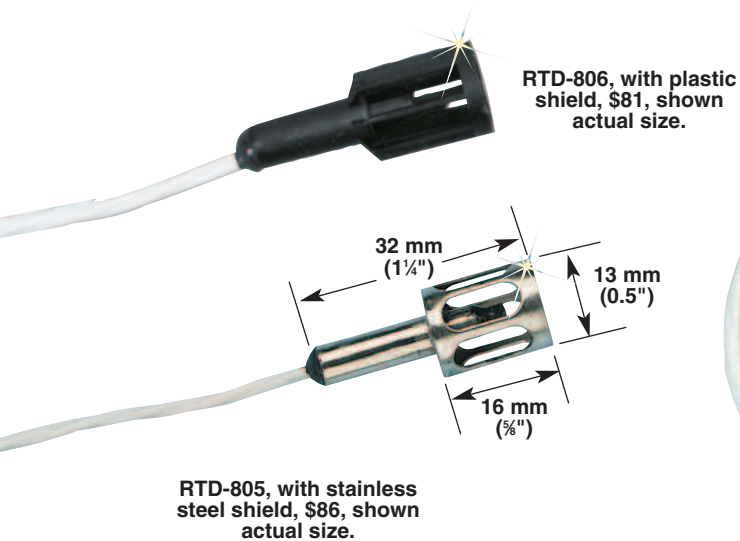
Air Temperature RTD Sensors

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!

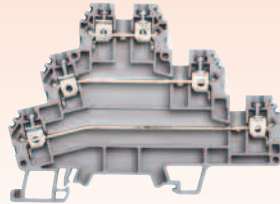
To Order (Specify Model Number)				
Model Number	Sensing Element	Cable	Max Temperature	Price
RTD-805	100 Ω Class “A” DIN	1 m (40") PFA Insulated	230°C (450°F)	\$86
RTD-806	100 Ω Class “A” DIN	1 m (40") PFA Insulated	230°C (450°F)	81

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



PUK-2T-10PK DIN rail terminal block, \$30/10 pack, see newportUS.com/terminal-blocks



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



OM-CP-OCTRTRD 8-channel data logger, \$999, visit newportUS.com/om-cp-octrtrd

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

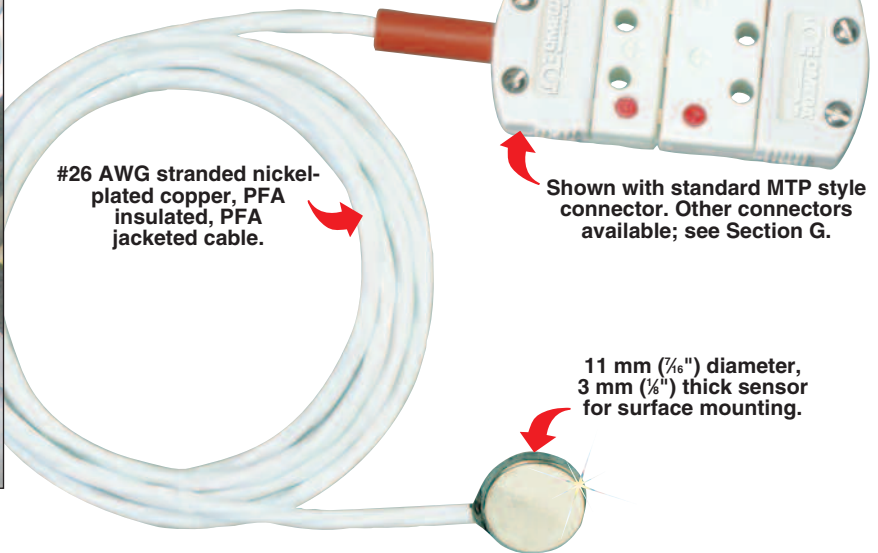
- ✓ High-Accuracy, 100 Ω, Class “A” DIN Platinum Element
- ✓ 3-Wire Construction for Connecting to Most Instruments

C



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

RTD-809
\$83



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

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

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-quadrtid

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**