

# General Purpose Industrial-Grade RTD Sensors (Class B) In Economical 3-Packs

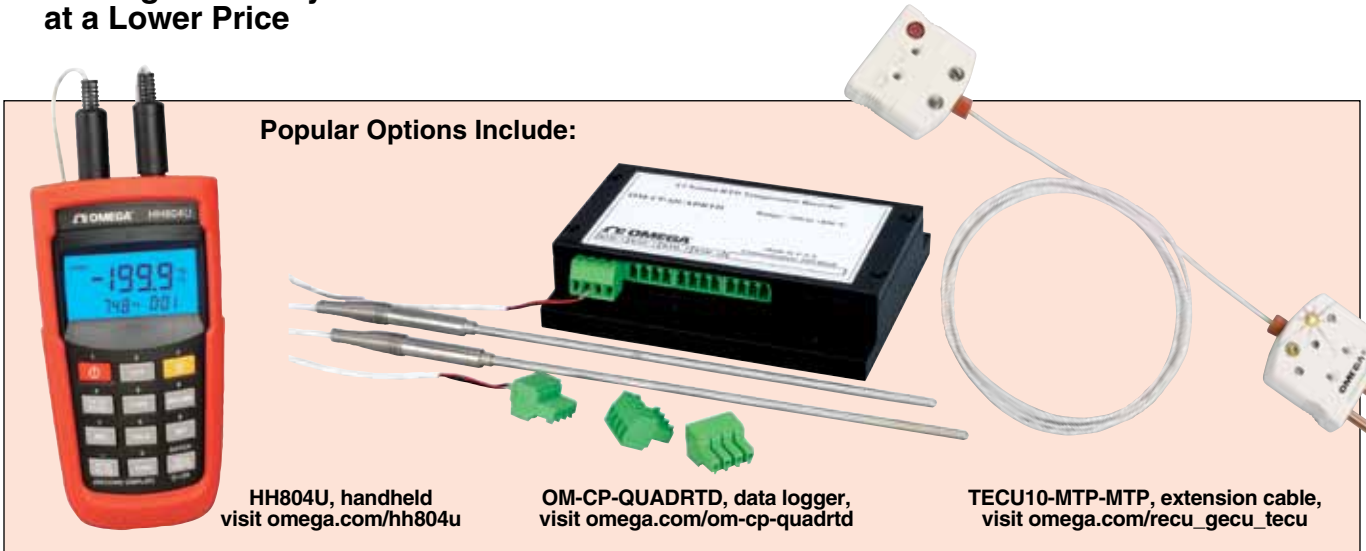
**Omega Exclusive:**  
These Industrial Grade RTDs  
are a Great Alternative When  
Our High-Accuracy or Ultra-  
Precise Sensors are More  
Than You Need!



RTD-850-B shown larger than actual size.

- ✓ Popular Sensor Styles Stocked for Immediate Delivery
- ✓ Industrial-Grade (Class “B”, ±0.12%) Accuracy
- ✓ Sold in Economical 3-Packs
- ✓ Same Rugged Sensor Construction as Our High-Accuracy Sensors— at a Lower Price

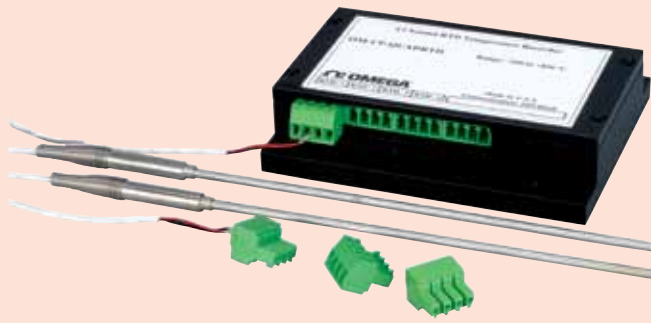
- ✓ Simple, Flexible Sensing Options for a Wide Variety of Measurement Applications
- ✓ Termination Options Available



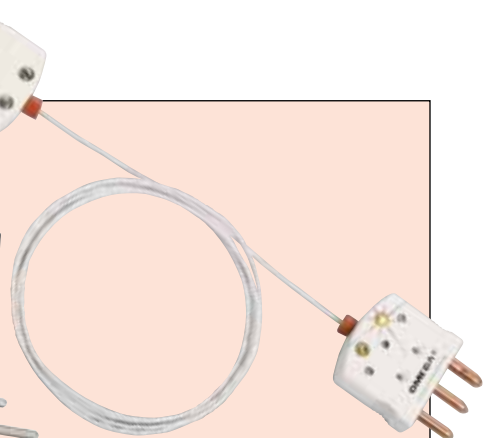
Popular Options Include:



HH804U, handheld  
visit [omega.com/hh804u](http://omega.com/hh804u)



OM-CP-QUADRTD, data logger,  
visit [omega.com/om-cp-quadrtd](http://omega.com/om-cp-quadrtd)



TECU10-MTP-MTP, extension cable,  
visit [omega.com/rece\\_gecu\\_tecu](http://omega.com/rece_gecu_tecu)

## Typical Applications

- ✔ Product Environmental and Performance Testing
- ✔ Climate Control/HVAC
- ✔ Thermal Protection of Electronic Products (Power Supplies, Electronic Racks, and Enclosures)
- ✔ Temperature Monitoring of Processes, Equipment, and Structures

Custom Holes Available. Consult Custom Engineering.

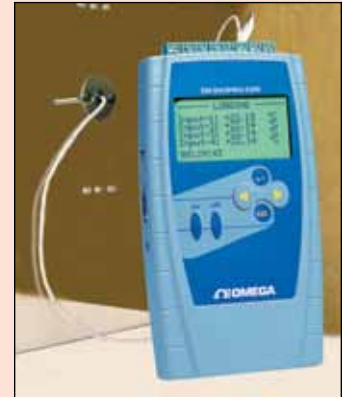


Perfect for tight spaces where temperature control is needed.



Typical epoxy mounting; see OMEGABOND® cements and epoxies

Typical bolt-mounted configuration could be used with OMEGATHERM® thermal paste.



Shown smaller than actual size with optional OM-DAQPRO-5300, handheld data logger. Visit [omega.com/om-daqpro-5300](http://omega.com/om-daqpro-5300)

## To Order Visit [omega.com/rtd-800\\_classb](http://omega.com/rtd-800_classb) for Pricing and Details

Configuration	Model No.	Description	Temperature Range	Typical Applications
	RTD-805-B	Sensing element is installed into a stainless steel housing for direct contact with air and gas	-50 to 230°C (-60 to 445°F)	HVAC, Laboratory, Workplace or Other Air Temperature Applications
	RTD-806-B	Sensing element is installed into a plastic housing for direct contact with air and gas		
	RTD-809-B	Sensor is packaged in a round stainless steel housing and encapsulated with epoxy. An ideal design for cementing or applying to flat or pliable surfaces.	-50 to 230°C (-60 to 445°F)	Compressor Efficiency and Surface Temperature Measurements
	RTD-810-B (1/8" NPT thread)	Closed-ended stainless steel probe with 1/8" NPT or BSPT threaded fitting. This design is ideal for fluid measurements and use in pressurized systems.	-200 to 750°C (-328 to 1380°F)	Measurements in Liquids and Pressurized Systems
	RTD-810M-B (1/8" BSPT thread)			
	RTD-830-B	Aluminum housing is machined to accept a #4 screw for easy mounting on flat surfaces. Can also be easily cemented or applied to flat surfaces.	-50 to 230°C (-60 to 445°F)	Flat Surface Measurements Where a #4 Screw Can be Used for Installation
	RTD-850-B (#8-32 thread)	1/4" stainless steel hex body includes a #8-32 or M4 thread for installation into tight places. Can be used in screw or bolt holes for measuring structure temperatures.	-50 to 230°C (-60 to 445°F)	Power Supplies, Electronic Equipment, Mechanical Structures
	RTD-850M-B (M4 thread)			
	RTD-860-B	Closed-ended stainless steel tube with a round mounting plate. Two holes are supplied for mounting. PFA-insulated lead wires.	-50 to 230°C (-60 to 445°F)	HVAC, Laboratory or Other Air Temperature Applications

**Select Specifications:** All sensors are provided with platinum elements with a resistance of  $100.00 \pm 0.12 \Omega$  at  $0^\circ\text{C}$ , and a temperature coefficient (alpha) of  $0.00385 \Omega/\Omega/^\circ\text{C}$ . All sensors are supplied with 1 m (40") of 3-conductor, #26 AWG stranded nickel-plated copper, PFA-jacketed cable. Standard termination is stripped leads.

For heavy-duty connectors, add "-OTP" to model number, for additional cost. For miniature connectors, add "-MTP" to model number, for additional cost.

**Ordering Examples:** RTD-850-B (3-pack). RTD-860-B-OTP RTD-860-B sensor with OTP connectors installed on all 3 sensors, (3 pack).

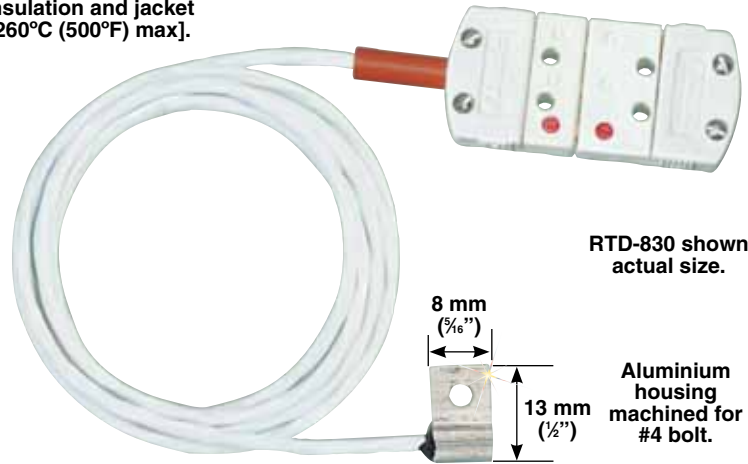
# Surface Mount RTD Sensor



- ✓ 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 shown actual size.

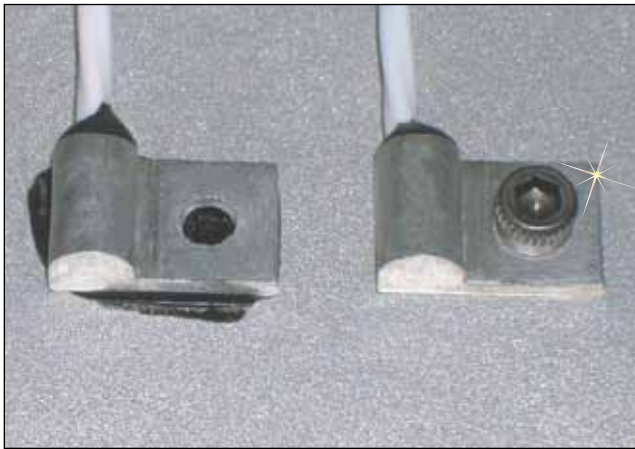
Aluminium housing machined for #4 bolt.

## To Order Visit [omega.com/rtd-830](http://omega.com/rtd-830) for Pricing and Details

Model Number	Sensing Element	Cable	Max Temperature
RTD-830	100 Ω Class "A" DIN	1 m (40") PFA insulated	230°C (450°F)
RTD-830-TA3F	100 Ω Class "A" DIN	1 m (40") PFA insulated	230°C (450°F)

Terminations Available: Provided with a miniature connector standard, for heavy duty connector add "-OTP" to model number for an additional cost. For audio connector add "-TA3F" to model number for an additional cost.

Ordering Examples: RTD-830-SPRTX(M1), 100 Ω class "A" DIN with 4 to 20 mA transmitter.  
RTD-830-TA3F, 100 Ω class "A" with audio connector.



Typical epoxy mounting; see OMEGABOND® cements and epoxies.

Typical bolt-mounted configuration could be used with OMEGATHERM® thermal paste.

### Options



OT-201-1/2 high conductive paste.

OMEGABOND epoxies.

## 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.

RTD — 830 — **OTP**

Ordering Example: RTD-830-OTP.