

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

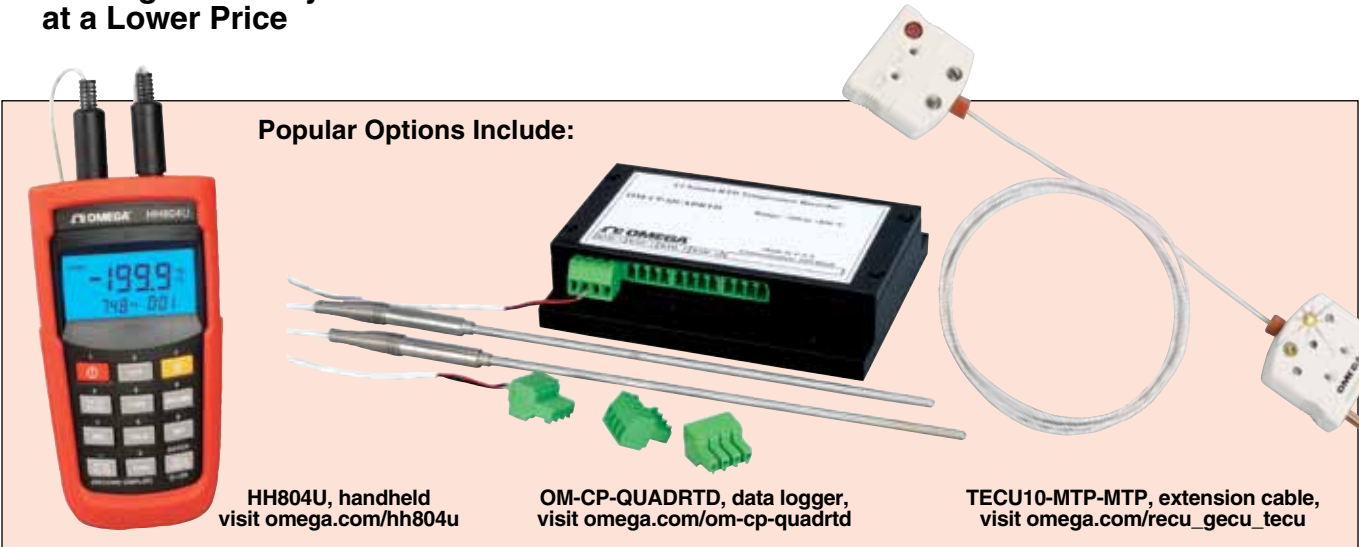
Omega Exclusive:
These Industrial Grade RTDs
are a Great Alternative When
Our High-Accuracy or Ultra-
Precise Sensors are More
Than You Need!



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

OM-CP-QUADRTD, data logger,
visit omega.com/om-cp-quadrtd

TECU10-MTP-MTP, extension cable,
visit 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.

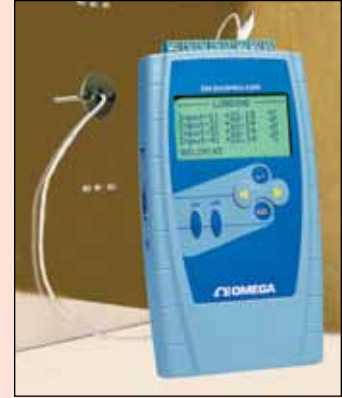


Perfect for tight spaces where temperature control is needed.



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

To Order Visit 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 ± 0.12 Ω at 0°C, and a temperature coefficient (alpha) of 0.00385 Ω/Ω/°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.

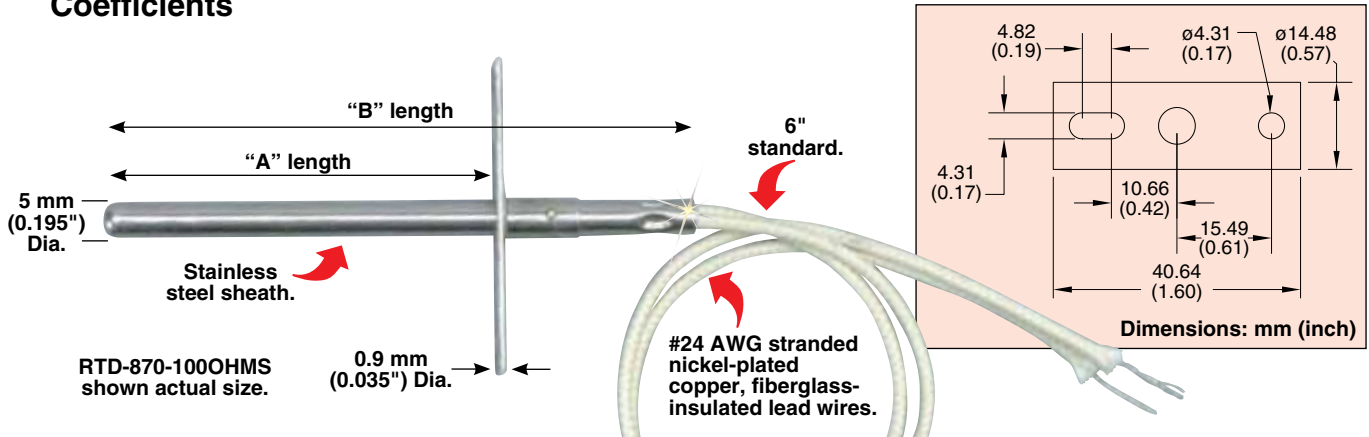
For heavy-duty connectors, add "-OTP" to model number, for additional cost. For miniature connectors, add "-MTP" to model number, for additional cost.

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).

Air, Gas, and Liquid Sensor With Bracket

- ✓ Mounting Bracket for Easy Installation
- ✓ -70 to 500°C Operating Temperature
- ✓ 100, 500, or 1000 Ω Configurations
- ✓ 0.00385 or 0.00375 Ω/Ω/°C Temp Coefficients

- ✓ 300 Series Stainless Steel Sheath and Bracket
- ✓ Great for Appliance, Lab, and Industrial Use



To Order			
Model No.	Sensing Element	"A" DIM	"B" DIM
RTD-870-100OHMS	100 Ω at 0°C, 0.00385 temp coefficient	51 mm (2")	76 mm (3")
RTD-870-APP-1000OHMS	1000 Ω at 0°C, 0.00375 temp coefficient		
RTD-880-100OHMS	100 Ω at 0°C, 0.00385 temp coefficient	152 mm (6")	178 mm (7")
RTD-880-APP-1000OHMS	1000 Ω at 0°C, 0.00375 temp coefficient		

Notes: The "A" dimension can be immersed in liquid up to the mounting flange. The two lead wires add 0.30 Ω of lead resistance to the circuit. For leads with Molex pin 03-06-2023 and male Molex 02-06-2101, add **"-MOLEX"** to the model number for an additional cost. For high-temperature miniature connectors with flat pins, add **"-SHX"** for an additional cost. For ultra high-temperature connectors with solid round pins, add **"-NHX"** for an additional cost.

Ordering Examples: RTD-870-1000OHMS-NHX, 100 Ω, 0.00385 DIN platinum element and high-temp solid pin connector. RTD-880-APP-1000OHMS-MOLEX, 1000 Ω, 0.00375 platinum element and Molex pins attached.

Popular Options Include:



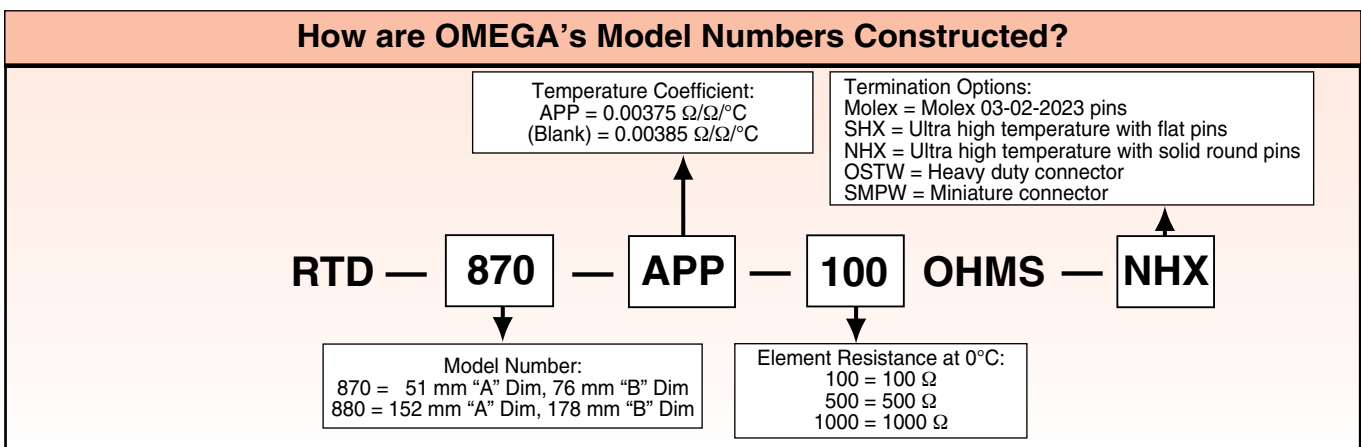
SHX miniature connector.



NHX miniature connector.



Autotune temperature/process dual setpoint controllers.



Ordering Example: RTD-870-APP-1000OHMS-NHX, 1000Ω at 0°C, 0.00375 temperature coefficient.