



HSRTD

Flexible Sealed RTD Sensor

INSTRUCTION
SHEET

M0503E/1218

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GENERAL DESCRIPTION

The OMEGA HSRTD Flexible Sealed RTD Sensor (RTD = Resistance Temperature Detector) is designed for use in immersion applications where the sensor needs to be protected from moisture or corrosive materials, or in small spaces where temperature measurements up to 260°C (500°F) are needed. The HSRTD's small cable-like design allows it to be easily installed practically anywhere.

The HSRTD sensors are manufactured with 100 ohm Class A or B thin film RTD elements whose resistance vs. temperature characteristics conform to the International Standard IEC 60751 (also known as DIN Platinum RTDs). The sensing element comes standard with four #26 AWG stranded nickel plated copper extension wires that are PFA insulated. The RTD element and extension wires are enclosed in an extruded PFA jacket which is sealed on the sensing end.

2. Connect the extension wires to a temperature measuring or controlling device and you are ready to begin taking temperature readings.

SPECIFICATIONS:

RTD Type: Platinum

Base Resistance: 100 Ohms at 0°C

Tolerance:

Class A = $\pm 0.15 + 0.002t$ (t=temperature in °C)

Class B = $\pm 0.30 + 0.005t$ (t=temperature in °C)

Temperature Rating:

Up to 250°C (482°F) continuous

Materials:

Conductors:

#26 AWG (7/32) Nickel Plated Copper

Conductor Insulation: PFA

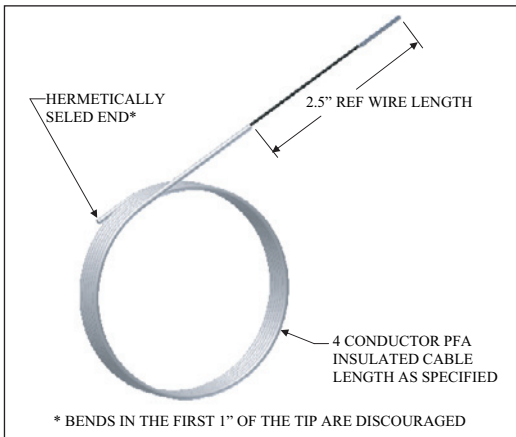
Outer Jacket: PFA

Dimensions:

Outside Diameter: Approx 2.25 mm (0.090")

Wire Lengths Available:

1 m (40"), 2 m (80") and 3 m (120")



OPERATING INSTRUCTIONS:

1. Remove the sensor from its package and place it into position. The sensor can be taped or clamped if desired, but sharp bends in the first 1 inch of the sensor are discouraged.



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WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. **BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS).** The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY RETURNS**, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY REPAIRS**, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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