



Nuclear Service Temperature Sensor

Mirion sensors

DESCRIPTION

Mirion Technologies Nuclear Service Temperature Sensors are categorized by Resistance Temperature Detectors (RTD) and Thermocouples (T/C). Mirion Technologies sensors are designed and manufactured to comply with the harsh requirements of in-containment applications.

Our field cable termination connections can mate to terminal blocks in a termination head with a Class 1E conductor seal, or spliced directly to pigtails. These sensors are perfect for applications requiring nuclear plant temperature readings.



RTD CONFIGURATIONS

- ✓ Single or dual elements
- ✓ 100 or 200 Ohm platinum elements
- ✓ 3 or 4 wire

T/C CONFIGURATIONS

- ✓ Single or dual junctions
- ✓ Available in standard Type T, J, E and K
- ✓ Customized to customer requirements



SENSORS RESISTANCE TEMPERATURE DETECTOR (RTD) AND THERMOCOUPLE (T/C)

FEATURES

- Unique swaged construction
- Resilient sealants protect sensor element against Loss of Coolant Accident (LOCA) event hazards
- Fast response designs
- Single or dual elements
- Calibrated to industry standards
- Technical support available

TERMINATION TYPES

- Quick disconnect
- Unitized
- Stainless steel terminal block head

APPLICATIONS

- Fast response reactor coolant system, inlet and outlet
- Containment atmosphere
- Pressurizer relief lines
- Hydrogen recombiner outlet and burn chamber
- Differential pressure compensation systems
- Suppression pool

QUALIFICATIONS

- Qualified by test to the current standards of IEEE-317, IEEE-323 and IEEE-344
- Quality Assurance Program meets the requirements of 10CFR50 Appendix B, and ANSI/ASME NQA-1
- LOCA



RTD with integral NSC (Nuclear Service Connector)



Thermocouple with NSC (Nuclear Service Connector)



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