

DELIVERING EXCELLENCE

Platinum Resistance Temperature Detectors (Platinum RTDs)

FEATURES

- Platinum RTDs with resistance versus temperature characteristic in accordance with IEC751, DIN43760, BS1904 or JIS C1604
- Nominal resistances of 100, 200, 500 and 1,000 ohms (special resistances also available)
- Temperature coefficients: 0.00385, 0.00390, 0.003916 and 0.003925 ohm/ohm/°C
- Measurement range: -55°C to +650°C continuous and pedigree with -260°C
- Accuracy: $\pm 0.15^\circ\text{C}$ at 0°C minimum (Class A)
- Air and liquid temperature measurement
- Thread mounted or flange mounted
- Cylindrical electrical connector or cable/lead wire termination
- All stainless steel, corrosion resistant body
- Hermetically sealed

BENEFITS

- Millions of cumulative flying hours
- Very high accuracy
- Negligible drift (stable accuracy)
- Fast response time
- Low stem conduction
- Light weight/robust design
- Reliable and long life

APPLICATIONS

- Engine Oil
- Cabin Air
- Engine Inlet Air
- Outside Air
- Engine Bleed Air
- Fuel
- Hydraulic Oil
- Gearbox Oil
- Air Management Systems
- Brake Temperature
- Inert Gas Generation Systems



■ Auxitrol Weston specializes in the design and development of extremely high-quality platinum resistance temperature detectors (PRTD) for use in harsh environments. With over 50 years' pedigree in commercial and military air, land and sea based applications.

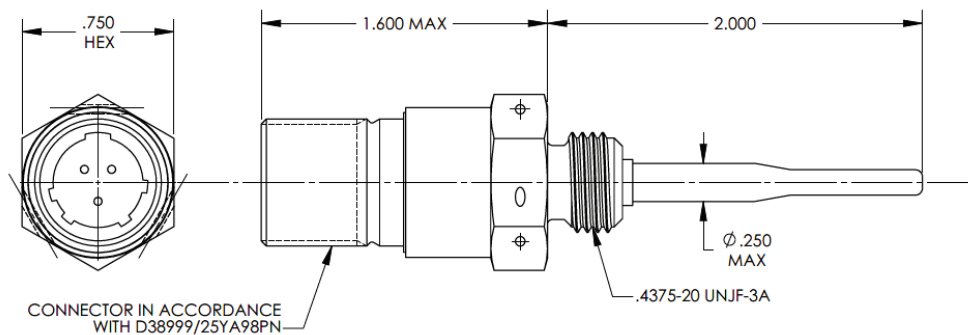
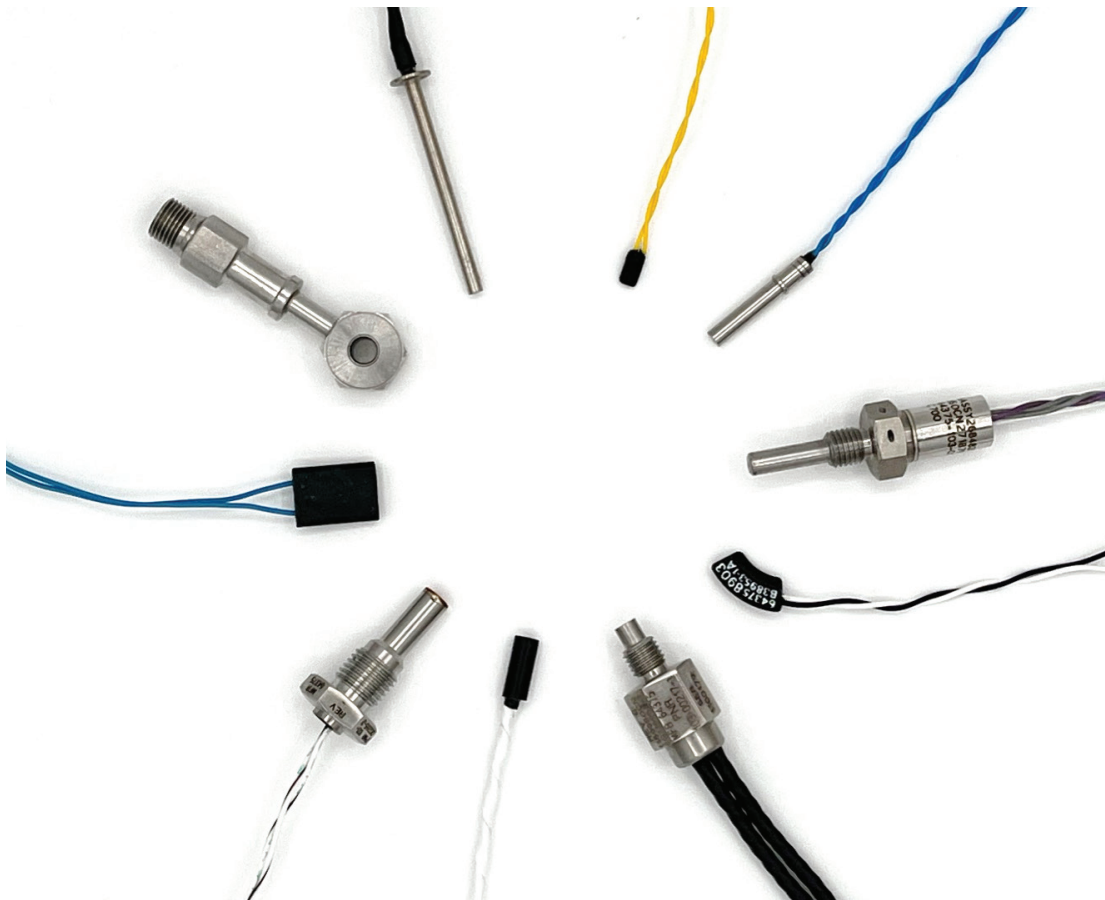
■ Auxitrol Weston are one of the few RTD manufacturers who utilize in-house built wire-wound sensing elements. This enables compliance with virtually any resistance versus temperature standard or to tailor the electrical characteristics to meet special customer needs, without loss in accuracy or repeatability.

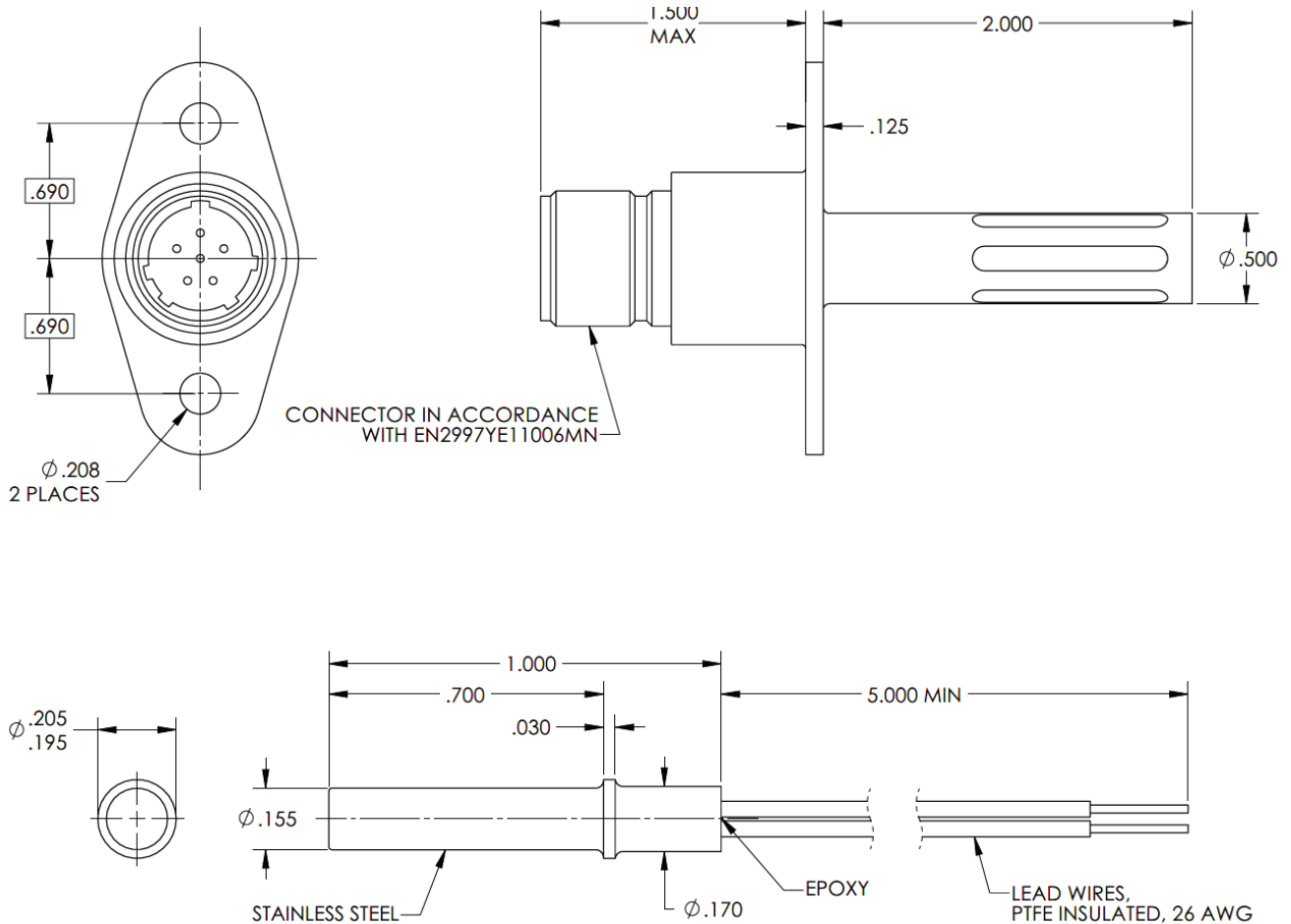
■ Thin film style sensing elements are also available for air, fuel and oil temperature measurement applications where size and cost are the key drivers.

■ High accuracy and low drift are achieved through the utilization of low stress, thermally stable, robust sensing elements and packaging.

Typical Performance Specification

Operating Temperature	-55°C to +650°C continuous and pedigree as low as -260°C
Resistance @0°C	100, 200, 500 and 1,000 ohms (special resistances also available)
Temperature Coefficient (TCR)	0.00385, 0.00390, 0.003916 and 0.003925 ohm/ohm/°C
Accuracy	±0.15°C minimum at 0°C (Class A)
Insulation Resistance	100 megohms minimum at 500 VDC
Vibration	10-10,000 Hz, inputs up to 100g
Reliability	>300,000 Flight Hours (MTBF)
Electrical Termination	Cylindrical (Military) style connector or cable/lead wires





Configurations shown are examples of the various designs and styles of platinum RTDs produced by Auxitrol Weston. Special designs can be provided with modified configurations to meet unique installations and applications.

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