



DELIVERING CRITICAL MEASUREMENTS

Aerospace/Defense Temperature Sensing

Application-driven designs for commercial and military aircraft

- High reliability, platinum wire-wound RTD's
- Non-standard curves and values
- Designed for harsh environments
- All stainless steel construction
- Hermetically-sealed connectors
- NIST-traceable metrology lab
- Weed Instrument brand temperature sensors



**Nuclear Sensors
& Process Instrumentation**

**Ultra
ELECTRONICS**



Aerospace/Defense Temperature Sensing

For Aerospace/Defense, Ultra Electronics, Nuclear Sensors & Process Instrumentation offers a wide selection of high-reliability RTD's and thermocouples. We precision-wind our own platinum and nickel-sensing elements, allowing us to produce non-standard resistance curves and values – maximizing performance for our customers. All sensors are calibrated to NIST standards and accredited by A2LA to meet the requirements of ISO/IEC 17025:2005 and packaged to provide exceptional accuracy, stability and reliability in the harshest environments.



Designed for high-reliability and to endure demanding shock, vibration and ambient environments, Ultra RTD's can be found in these applications:

- Bleed Air
- Cabin Air
- Engine Oil
- Gear Boxes
- Fuel Systems
- Duct Air
- Avionics
- Inlet Air Ducts
- Cylinder Heads
- Climate Control
- Hydraulic Systems
- Compressor Discharge
- Engine Test Cells
- Environmental Controls

Ambient Air and Gas Sensors

Ultra ambient air and gas sensors measure the temperature of air and gas in an open environment such as a wind tunnel, a jet engine test cell, or a housing for sensitive electronics. A unique feature of our ambient air and gas sensors is their very fast response time.



Fluid Immersion Probes

Ultra fluid immersion probes are fast-response sensors that are immersed in a closed system of liquid, air or gas. Examples include engine oil, air flow or exhaust gas. Ultra fluid immersion probes are extremely rugged and are available with hermetically sealed housings.



Surface Sensors

Ultra surface sensors easily attach to flat or curved surfaces. Their rugged design and small size make them ideal for many applications. Typical uses include the measurement of aircraft skin temperature, environmental temperature surrounding critical electronic components, and fluid temperature through the surface of a conduit.





Ultra Electronics temperature sensors for Aerospace and Military applications are highly engineered products. Please contact one of our Aerospace/Military Account Managers today so that we can begin configuring temperature sensors specific to your application.

Ultra is a leading manufacturer of temperature and pressure instrumentation and fiber-optic data networking equipment for OEM, Industrial, Aerospace and Nuclear applications. Our products include RTD's, Thermocouples, Temperature & Pressure Transmitters and Fiber-Optic Modems. We are recognized as an innovator in the instrumentation market, having received multiple customer and industry awards during our 45+ year history.

Ultra adds value to our clients by delivering the lowest total cost and minimizing supply risk. We achieve this with a combination of competitive unit pricing and aligning our product delivery to match our client's unique consumption patterns. Our factory is dedicated to manufacturing world-class temperature sensors, and we can tailor our engineering, production and shipment capabilities to minimize risk and inventory management costs.



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