



U.S. SENSOR Corp.

Thermistors, RTDs, Probes & Assemblies

1-800-777-6467

Reliability Testing MEASUREMENT CAPABILITIES

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Failure Analysis

In the event that you should experience a problem with a U.S. Sensor thermistor or probe assembly, our test facilities and experienced personnel are available to perform failure analysis on your devices.

U.S. Sensor Corp. is continuously improving our measurement equipment and training of our test personnel. At the time of this publication our total expanded uncertainty in temperature measurement is less than $\pm 0.003^{\circ}\text{C}$ from -40 to 110°C . Uncertainty above 110°C and below -40°C is only slightly higher.

The total expanded uncertainty includes all factors present in the temperature measurement process: equipment, environment, personnel, etc. We evaluate both repeatability as well as reproducibility. Uncertainty is calculated in accordance with NIST Tech Note 1297 (root sum squares with $k=2$).



U.S. Sensor Corp. maintains traceability in Resistance with a complete set of Leeds and Northrup Standard Resistors. This set of standard resistors has calibration data that dates back to 1966. The calibration data is plotted in control charts and our long term stability for these devices is between 0.002% and 0.004%. Total drift since 1966.

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