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## Reliability Testing
## QUALIFICATION TESTING

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U.S. Sensor Corp. has developed a sealing method that prevents the moisture intrusion condition from occurring. Our proprietary process has been proven reliable in many applications.

Our probe designs have also been subjected to environmental, electrical, and, physical testing to prove the longevity of the design. Below is a typical Qualification test for a probe design.

- Serialize and record readings from -40 to 180°C
- Thermal shock 10 cycles -40 to 180°C (Minimum 30 minutes at extremes and maximum 30 minutes between temperatures).
- Thermal soak 100 hours at 140°C and 80% of the rated max current.
- Vibration Testing
- Shock and drop
- Record readings from -40 to 180°C

U.S. Sensor parts have passed these tests with temperature measurement changes of ±0.03°C (Typical) on probes with a tolerance of ±1.0°C

The probe on the right experienced the Qualification Tests described above. The brass has become significantly tarnished, however, the thermistor performance changed by only 0.03°C.

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