



RTD Replacement Services



About

Through more than 35 years of RTD testing, calibration, and cross-calibration, experience has shown that the calibration of new RTDs can shift significantly during their first operating cycle. This may be caused by moisture intruding into the RTD while it is in storage prior to installation. During normal operation, the RTD internals then "dry out" resulting in another shift in the RTD calibration. AMS' RTD Replacement Services "burns-in" RTDs that have been in storage, confirms both calibration and response time prior to installation, confirms proper seating in the thermowell after installation, and ensures that the initial operating cycle is free from the data shifts described above.

RTD Validation Process

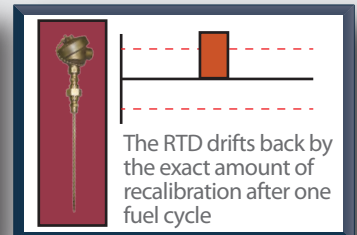
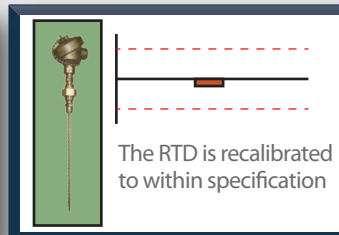
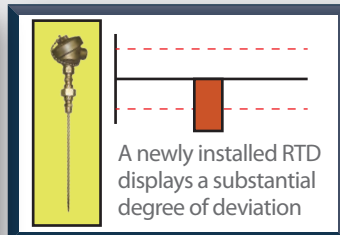
1. Calibrate the RTD
2. "Burn-In" the RTD in AMS furnaces
3. Repeat the RTD calibration process
4. Verify the RTD's calibration constants
5. Verify the RTD's response time
6. Prepare the final report of results
7. Post-installation RTD "cold" response time testing verifies proper seating in the thermowell
8. Traditional RTD response time testing at hot stand-by verifies proper dynamic performance

Benefits

- Verify the RTD's calibration and response time prior to start-up
- Plants can operate with the knowledge that RTD calibration will not shift as the result of an insufficient burn-in period
- Save critical path time by verifying proper installation of the RTD prior to hot standby conditions

"RTD components, such as the cable insulation material, are hygroscopic, thereby allowing moisture intrusion which may ultimately affect the RTD's calibration"

The possible calibration progression of a newly installed RTD.



For more information please contact:

Dan Beverly (Chief Technical Officer)
Extension: 112 Email: dan@ams-corp.com

Darrell W. Mitchell (Technical Services Manager)
Extension: 108 Email: darrell@ams-corp.com

Analysis and Measurement Services Corporation

AMS Technology Center
9119 Cross Park Drive
Knoxville, TN 37923, USA

TEL 865 691 1756
FAX 865 691 9344

EMAIL info@ams-corp.com
WEB www.ams-corp.com

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