



Page:	1	of	3
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## 1.0 PURPOSE

- 1.1. This procedure establishes the requirements to adhere to when performing calibration of field test instruments.
- 1.2. Calibration shall be to the requirements of ISO 10012 or ANSI/INCSSL Z 540-1. These requirements are considered to be met if calibration is done by a laboratory accredited to ISO/IEC 17025.

## 2.0 REFERENCE DOCUMENTS

- 2.1. PI-167 Control of Inspection, Measuring, and Test Equipment.

## 3.0 ALTEK 422 TEMPERATURE CALIBRATOR

- 3.1. ID Numbers: LOG 1524 EG, LOG 4146 EG.
- 3.2. Uses: Calibration of controlling, monitoring, or recording instruments and performance of SATs.
- 3.3. Calibration Frequency: 3 months max.
- 3.4. Calibration Standard: Primary or secondary standard traceable to NIST, or other equivalent National Standard.
- 3.5. Calibration Setpoints: 250°F, 400°F, 842°F, 1150°F, 1370°F, 1590°F, 1810°F, 2030°F and 2250°F (additional setpoints are permissible).
  - 3.5.1. Must be completed for each channel individually.
- 3.6. Accuracy Limits: +/- 1°F or +/- 0.1% of reading, whichever is greater.
- 3.7. Thermocouple (TC) Types to be Calibrated: K and R.
- 3.8. Reporting: Must meet AMS 2750 (current revision at the time of reporting).

## 4.0 AGILENT 34970A DATA LOGGER

- 4.1. ID Numbers: LOG 3993 VS, LOG 4348 VS.
- 4.2. Uses: Performance of TUS's
- 4.3. Calibration Frequency: 3 months max.
- 4.4. Calibration Standard: Primary or secondary standard traceable to NIST, or other equivalent National Standard.
- 4.5. Calibration Setpoints: 250°F, 400°F, 842°F, 1150°F, 1370°F, 1590°F, 1810°F, 2030°F and 2250°F (additional setpoints are permissible).
  - 4.5.1. Must be completed for each channel individually.

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- 4.6. Accuracy Limits:  $\pm 1^{\circ}\text{F}$  or  $\pm 0.1\%$  of reading, whichever is greater.
- 4.7. TC Types to be Calibrated: K
- 4.8. Reporting: Must meet AMS 2750 (current revision at the time of reporting).

## **5.0 TELEVAC MM200 / 7E1 COLD CATHODE / 2A TC TUBE, VACUUM INSTRUMENT/SENSORS**

- 5.1. ID Number: 060224 (reference Meyer LOG 1520 PG).
- 5.2. Uses: Calibration of controlling, monitoring, or recording instruments.
- 5.3. Calibration Frequency: 12 months max.
- 5.4. Calibration Standard: Primary or secondary standard traceable to NIST, or other equivalent National Standard.
- 5.5. Calibration Setpoints: Any setpoints are acceptable so long as 20 microns (for TC tube) as well as  $1 \times 10^{-3}$ ,  $5 \times 10^{-4}$  and  $5 \times 10^{-5}$  torr (for cold cathode) are included.
  - 5.5.1. Must be completed for each channel individually.
- 5.6. Calibration Method: Shall be in accordance with manufacturer's recommendations.
- 5.7. Accuracy Limits:  $\pm 0.45$  decade.

## **6.0 TRANSMATION 1045 SN PRESSURE CALIBRATOR**

- 6.1. ID Numbers: LOG 1501 TH.
- 6.2. Uses: Calibration of controlling, monitoring, or recording instruments.
- 6.3. Calibration Frequency: 3 months max.
- 6.4. Calibration Standard: Primary or secondary standard traceable to NIST, or other equivalent National Standard.
- 6.5. Calibration Method: Shall be in accordance with manufacturer's recommendations.
- 6.6. Accuracy Limits:  $\pm 0.2$  psi.

## **7.0 VAISALA DMT-152 DEWPOINT INSTRUMENT**

- 7.1. ID Numbers: LOG 3689 TH, COX 3488 TH.
- 7.2. Uses: Calibration of controlling, monitoring, or recording instruments.
- 7.3. Calibration Frequency: 6 months max.
- 7.4. Calibration Standard: Primary or secondary standard traceable to NIST, or other equivalent National Standard.
- 7.5. Calibration Setpoints: Any setpoints are acceptable so long as a minimum of three (3) setpoints are taken and the range from  $-60^{\circ}\text{F}$  to  $-80^{\circ}\text{F}$  is covered.
- 7.6. Calibration Method: Shall be in accordance with manufacturer's recommendations.
- 7.7. Accuracy Limits: Shall be in accordance with manufacturer's recommendations.

## **8.0 GE MMY245 DEWPOINT INSTRUMENT**

- 8.1. ID Numbers: LOG 3689 TH, COX 3488 TH.
- 8.2. Uses: Calibration of controlling, monitoring, or recording instruments.

- 8.3. Calibration Frequency: 6 months max.
- 8.4. Calibration Standard: Primary or secondary standard traceable to NIST, or other equivalent National Standard.
- 8.5. Calibration Setpoints: Any setpoints are acceptable so long as a minimum of three (3) setpoints are taken and the range from -60°F to -80°F is covered.
- 8.6. Calibration Method: Shall be in accordance with manufacturer's recommendations.
- 8.7. Accuracy Limits: Shall be in accordance with manufacturer's recommendations.

## **9.0 OUT OF TOLERANCE CONDITION**

- 9.1. Any instrument which does not meet the requirements listed herein shall be taken out of service.
- 9.2. The calibration department shall refer to PI-167 for further action.

## Revision History

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