

Standard Operating Procedure Calibration Procedure for Temperature Transmitters	SOP No. 6.016
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DCR No.: 03008  
Revision No.: 0

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**Supersedes:** 7-21-03  
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- 1 Purpose
  - 1.1 The purpose is to provide guidelines for field calibration on instruments after their installation.
- 2 Scope
  - 2.1 This procedure shall cover all temperature transmitters that will be commissioned by Therma's Calibration Department.
- 3 Reference
  - 3.1 Manufacturer's manual for the specific instrument.
- 4 Responsibility
  - 4.1 Field calibration technician shall perform calibration as per the following procedures.
- 5 Procedures
  - 5.1 Gather all necessary fittings and test equipment needed for specific transmitter. Make sure that the test equipment has been calibrated and within the calibration period.
  - 5.2 Obtain manufacturer manual for any additional setup information.
  - 5.3 Place element in a temperature standard.
  - 5.4 Set the temperature standard to the required test points.
  - 5.5 Connect a milliamp meter to the output of the transmitter and record readings on a temperature transmitter calibration sheet, FN 6.016.
    - 5.5.1 Set the temperature source to the low point of the transmitter range.
    - 5.5.2 Allow readings to stabilize and adjust the zero potentiometer until the appropriate reading is achieved on the current meter.

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- 5.5.3 Set the temperature source to the high point of the transmitter range.
- 5.5.4 Allow readings to stabilize and adjust the Span potentiometer until the appropriate reading is achieved on the current meter.
- 5.5.5 Set the temperature source to mid point of the transmitter range.
- 5.5.6 Allow readings to stabilize and adjust the Span potentiometer until the appropriate reading is achieved on the current meter.
- 5.5.7 Repeat the calibration adjustments as described in Steps 5.5.1 to 5.5.6 until readings are at appropriate levels.
- 5.5.8 Record all data on the temperature transmitter calibration sheet, FN 6.016.1.

- 5.6 Place Therma's calibration sticker on the transmitter upon completion of calibration.
- 5.7 If the transmitter did not meet the calibration tolerances and adjustments, contact the customer.

## 6 Review and Approval

- 6.1 The field calibration technician shall submit the temperature transmitter calibration sheet, FN 6.016.1 to project manager.

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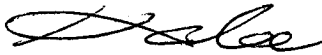
## Document Approval



Field Calibration

7-14-03

Date



Quality Assurance Manager

7-21-03

Date

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