Standard Operating Procedure Calibration Procedure for Wall Thermostat

SOP No. 6.019

DCR No.: 03041 Revision No.: 0 Effective: 8-4-03 Supersedes: 8-4-03 Revision Date: 8-4-03 Page No.: 1 of 3

1 Purpose

1.1 The purpose is to provide guidelines for field calibration on wall thermostat after its installation.

2 Scope

2.1 This procedure shall cover all wall thermostats that will be commissioned by Therma's Calibration Department.

3 Reference

3.1 Manufacturer's Instruction Manual for heating, ventilation and air conditioning (HVAC) temperature transmitter wall thermostats.

4 Responsibility

- 4.1 Field calibration technician shall coordinate with user to avoid disruption of plant facilities or operations before performing calibration.
- 4.2 Field calibration technician shall perform calibration as per the following procedures.

5 Tools and Test Standards

- 5.1 Hart Scientific Digital Thermometer: ±0.5% accuracy
- 5.2 Small hand tools
- 5.3 Temperature unit conversion table
- 5.4 Electrical extension cord

6 Procedures

- 6.1 Gather all necessary tools and test standard. Make sure that the test standard has been calibrated and within the calibration period.
- 6.2 Before performing calibration, perform the following maintenance for the wall thermostat.

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- 6.2.1 Inspect the transmitter for any physical defects/damage.
- 6.2.2 If dust has been accumulated on the external surface, clean the surface with clean cloth.
- 6.3 Connect digital thermometer to output of transmitter or monitor end user device.
- 6.4 Suspend the digital thermometer probe in close proximity to the temperature transmitter.
- 6.5 Allow sufficient time for thermometer temperature to stabilize. Record a single point in "As Found Data" section on form FN 6.016.1 (Calibration Sheet for Temperature Transmitter).
- 6.6 Perform Calibration Adjustment
 - 6.6.1 If transmitter is not within manufacturer's specified accuracy, make an offset adjustment with hand held interface device at the transmitter or at the end user device.
 - 6.6.2 Allow sufficient time for thermometer temperature to stabilize. Record a single point in "As Found Data" section on form FN 6.016.1 (Calibration Sheet for Temperature Transmitter).
- 6.7 Place Therma's calibration sticker on the wall thermostat upon completion of calibration.
- 6.8 If the transmitter did not meet the calibration tolerances and adjustments, contact the customer.
- 6.9 The field calibration technician shall fill in the calibration data including test standard data on form FN 6.016.1 (Calibration Sheet for temperature Transmitter) before submitting to project manager.

7 Review and Approval

7.1 The field calibration technician shall submit the form FN 6.016.1 (Calibration Sheet for Temperature Transmitter) to the project manager.

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Document Approval

Field Calibration

8-4-03

8-4-03

Date

Quality Assurance Manager

Date

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