



Factory Calibration Kit Installation Instructions

Overview

Brasch Generation 2 sensor boards are calibrated at the factory and have an expected calibration duration of approximately two years. Environmental conditions may shorten or prolong this period of time, but once the sensor parameters drift outside of acceptable tolerances, the sensor board must be either be recalibrated or replaced.

This document outlines the procedure for installing a factory calibration kit of all Brasch Generation 2 sensor boards including:

Carbon Monoxide Models

GSE2-CM-24
GSE2-CM-120
GSE2-CM-Remote
TRNS2-CM-Analog
TRNS2-CM-Digital
GDPCP-CM-Remote

Nitrogen Dioxide Models

GSE2-ND-24
GSE2-ND-120
GSE2-ND-Remote
TRNS2-ND-Analog
TRNS2-ND-Digital
GDPCP-ND-Remote

Combination Models

GSE2-NCM-24
GSE2-NCM-120
GSE2-NCM-Remote
TRNS2-NCM-Analog
TRNS2-NCM-Digital
GDPCP-NCM-Remote

Required:

- Phillips Screwdriver
- Factory Calibration Kit
- Pliers (Long or Needle Nose)

Procedure:

1. Loosen the two lid screws and open the enclosure
2. Turn power OFF to the sensor board
 - a) Verify the Green Power LED is dark before proceeding
3. Remove all wire connections to the sensor board
 - a) Note the locations of these wires so they can be returned on the new board
4. Remove the retaining screws
 - a) For local sensors, there are three retaining screws (6-32 x 1/4")
 - b) For remote sensors, there are four retaining screws (10-24 x 1/4")
5. For local sensors only, pinch the locking standoff with a pair of pliers and gently lift on the closest corner of the sensor board
6. Extract the sensor board from the enclosure and set it aside
7. Make sure that all jumpers and switches on the new sensor board match those on the old sensor board
8. Place the new sensor board into the enclosure
9. Return the screws and tighten until the board is secure
10. Connect the wires to the sensor board in their original positions
 - a) Use the diagram on the following page for assistance
11. Turn power ON to the sensor board
 - a) Verify the Green Power LED is illuminated before proceeding
12. Close the lid and firmly tighten the two screws
13. Check for proper operation

Troubleshooting:

- If any of the following errors are present, press firmly on the sensor itself to ensure it is fully seated in the socket on the PCB.
 - Standalone Detectors: 9996
 - BMS Transmitters: 0x0004
 - Control Panel Remotes: Sensor # Missing
- If any of the following errors are present, check the wiring connections to the sensor board.
 - Standalone Detectors: 960x
 - BMS Transmitters: No Communication
 - Control Panel Remotes: Sensor # Communication Loss

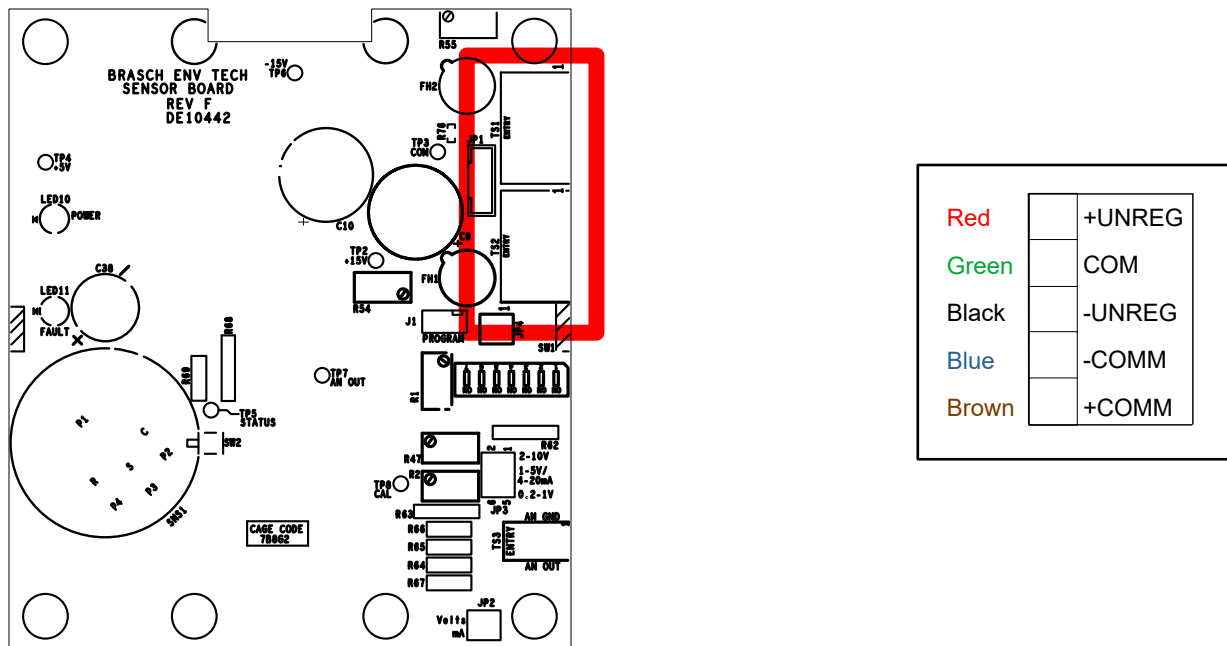
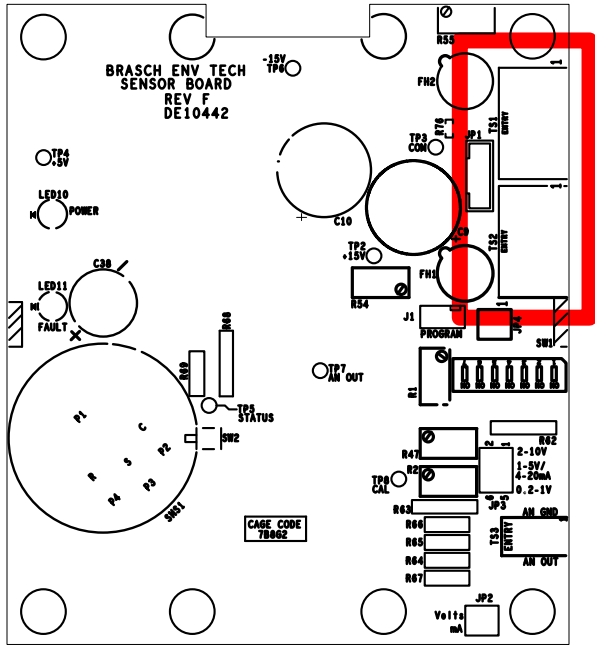


Figure 1: Sensor Wiring Color Code – Standalone Remote



Black	+UNREG
White	COM
Black	-UNREG
Blue	-COMM
Brown	+COMM

Figure 2: Sensor Wiring Color Code – GDCP-Touch and BMS Remotes

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