

Title: Telaire 8000 Series CO2 Sensor With Display (Troubleshooting)

Overview

This document outlines the common troubleshooting steps to perform when you have a Telaire 8000 Series CO2 Sensor with a display that is not operating as expected.

Why Is My Controller's CO2 Reading Double The CO2 Sensors Digital Display Reading?

1. Verify the dipswitch settings inside the sensor are in the correct positions. See figure 1 & 2.

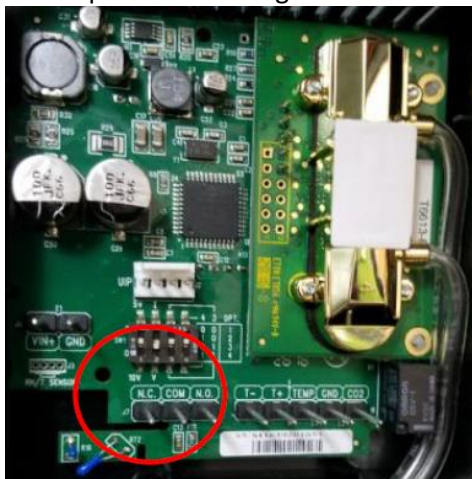


Figure 1. Internal Dipswitch Location

VERIFY 0-5VDC!

DIP switch setting:

- Rocker 1 is **ON**
- Rocker 2 is **OFF**
- Rocker 3 is **ON**
- Rocker 4 is **ON**

0-5VDC

ON

OFF

Figure 2. Dipswitch Settings

2. If your dipswitch settings are incorrect, adjust the dipswitches to the following:

- Switch 1 = UP/ON
- Switch 2 = DOWN/OFF
- Switch 3 = UP/ON
- Switch 4 = UP/ON

What Should I Check If My Controller Has A CO2 Reading Of 0 PPM?

Verify if there is a reading on the CO2 sensor display. If the CO2 display is blank, go to step 1. If the CO2 display is not blank, go to step 2.

1. If the **CO2 display is blank**, complete the following steps:
 - a. Remove the sensor, then verify that 24 VAC is present on terminals 1 and 2.
 - b. Verify that the polarity is correct. +24 VAC on terminal 1 and -24 VAC on terminal 2.
 - c. If no 24 VAC is present, check the control transformer.
 - d. If 24 VAC is present and polarity is correct, the sensor needs to be replaced. If you require assistance with sourcing a replacement sensor or have questions, call Flō Tech Support (888-598-1198).
2. If the **CO2 display is not blank**, complete the following steps:
 - a. Verify that the wires are terminated correctly inside the sensor and at the Flō controller. See figure 3.

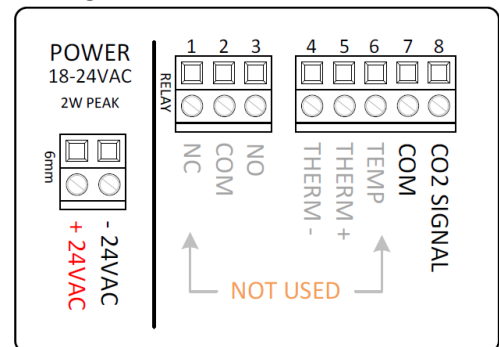


Figure 3. Internal (back plate) wiring detail.

Power +24VAC – (+)24 VAC

Power -24VAC – (-)24 VAC

Terminal 7 – CO2 Signal Ground

Terminal 8 – CO2 Signal

- b. Reinstall the sensor and verify a 0-5 VDC signal is present at the controller's CO2 input.
- c. If voltage is present call Flō Tech Support (888-598-1198). If no voltage is present, the sensor needs to be replaced. If you require assistance with sourcing a replacement sensor, please call Flō Tech Support.