Installation Instructions
CO-CO1224T Carbon Monoxide Detector

Instructions

Please follow these instructions to connect the CO-CO1224T to the NMEA 2000® network via a Maretron SIM100 Switch Indicator Module. The wiring diagram appears in Figure 1 on the reverse side of this page. The diagram shows a connection to channel #1, but connections to other channels are similar.

1. Connect the CO-CO1224T power terminals to a 10-33VDC supply that is independent of the NMEA 2000® network power supply as shown in Figure 1. Powering the unit separately from the NMEA 2000® network allows the detector to work even when the NMEA 2000® network is powered off.

2. Connect two wires from the CO-CO1224T to a free switch channel on the SIM100.
   The example in Figure 1 shows the detector connected to switch channel 1, terminals SW1A and SW1B.

3. Use a Maretron DSM Series display or the N2KAnalyzer PC software and appropriate gateway to properly configure the SIM100 and associated channel for use with the CO Detector. The channel “Mode:” should be set to “End of Line Resistor”. Set the “Label:” with an appropriate name for easy identification when setting up favorite screens described in the next step (e.g., Salon CO).

4. Supply Power to the NMEA 2000® network and to the CO-CO1224T and verify that the switch channel indicates an “OFF” (normal) state using Maretron N2KView software, N2KAnalyzer, the MConnect or another product capable of displaying switch indicator state.

5. Perform a CO test and press Test/Hush button on the sensor (marked on the outside of the detector) and verify that the switch channel indicates an “on” (alarm) state during each of the tests.

6. Remove power from the CO-CO1224T and verify that the switch channel indicates an “error” (alarm) state.

7. Reconnect power and verify that the switch channel indicates an “off” (normal) state.

8. Disconnect either of the two alarm wires from the SIM100 and verify that the switch channel indicates an “error” state.

9. Reconnect the alarm wires to the SIM100 and verify that the switch channel indicates an “off” (normal) state.

10. In order to display the status of the CO Detector on a DSM Series display, N2KView software or the MConnect, create an “Indicator Status” within a favorite screen. Since the relay contained within the CO Detector is normally open, set the ‘clear’ or “OFF Color” to black or green. Set the active or “ON Color” to be red to indicate the detection of CO. Set the “Error” state as yellow, to indicate the circuit may be compromised.

11. In order to create an Alert on a DSM Series display or within the N2KView software, create an Alert->Indicator->Status->On Alert. Whenever the CO Detector engages, the normally open relay will close and the SIM100 indicates an On condition and the Alert is triggered.

WARNING: The CO-CO1224T is shipped with an 8KΩ end-of-line resistor installed between one of the alarm contacts terminals and one of the supervisory relay terminals. Also, the detector is shipped with a jumper wire installed between the trouble relay and the alarm contacts. Do not remove either the resistor or the jumper wire, as they are required for proper operation.

(continued on reverse)

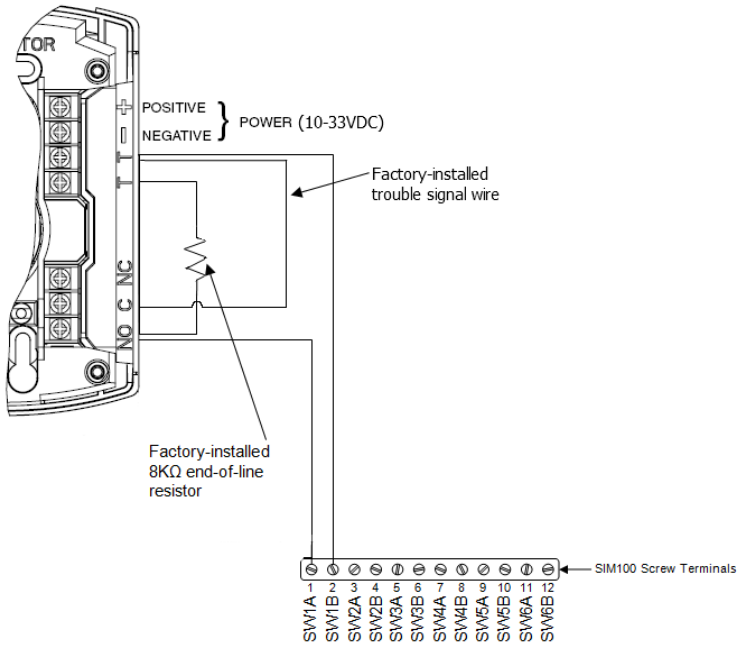

Figure 1 - Wiring Diagram

If you require technical support for Maretron products, you can reach us in any of the following ways:

Toll Free: **1-866-550-9100**
Phone: **1-603-324-7900**
E-mail: **support@maretron.com**
Customer Portal: **Customer.Raymarine.com**
World Wide Web: **http://www.maretron.com**
Mail: **Raymarine-Maretron FL Service Center**
120 Intracoastal Pointe Drive
Jupiter, FL 33477
USA

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