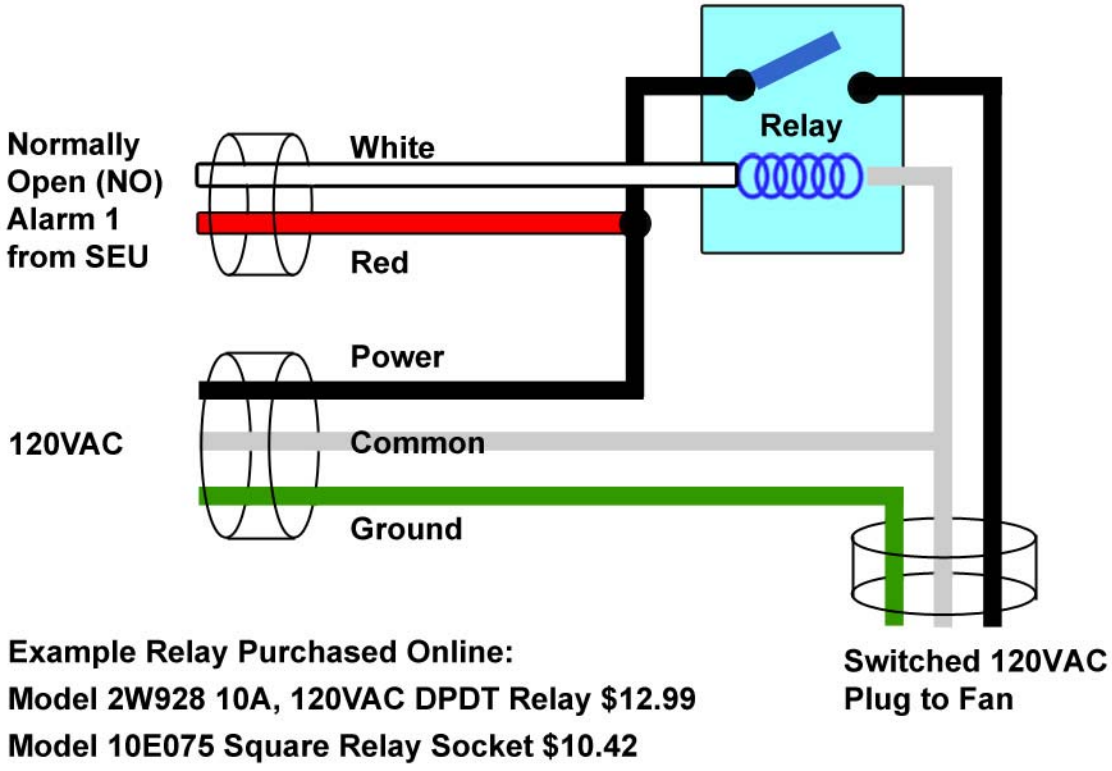
Application Note: Exhaust Fan Wiring Diagram

For RAD CO2 Safety Meters and more with 120VAC relays

Notes:

This diagram shows the connections required to control a 120VAC exhaust fan from a RAD-0102 Remote CO2 Storage Safety Dual Relay Alarm.

The same diagram can be used to connect any of our CO2 meters, transmitters or wall monitors that include on on-board 120VAC, 3A, normally open (NO) relay.



Example Relay Purchased Online:
Model 2W928 10A, 120VAC DPDT Relay $12.99
Model 10E075 Square Relay Socket $10.42

Connecting RAD-0102-6 to CM-1026-5 Strobe Tower

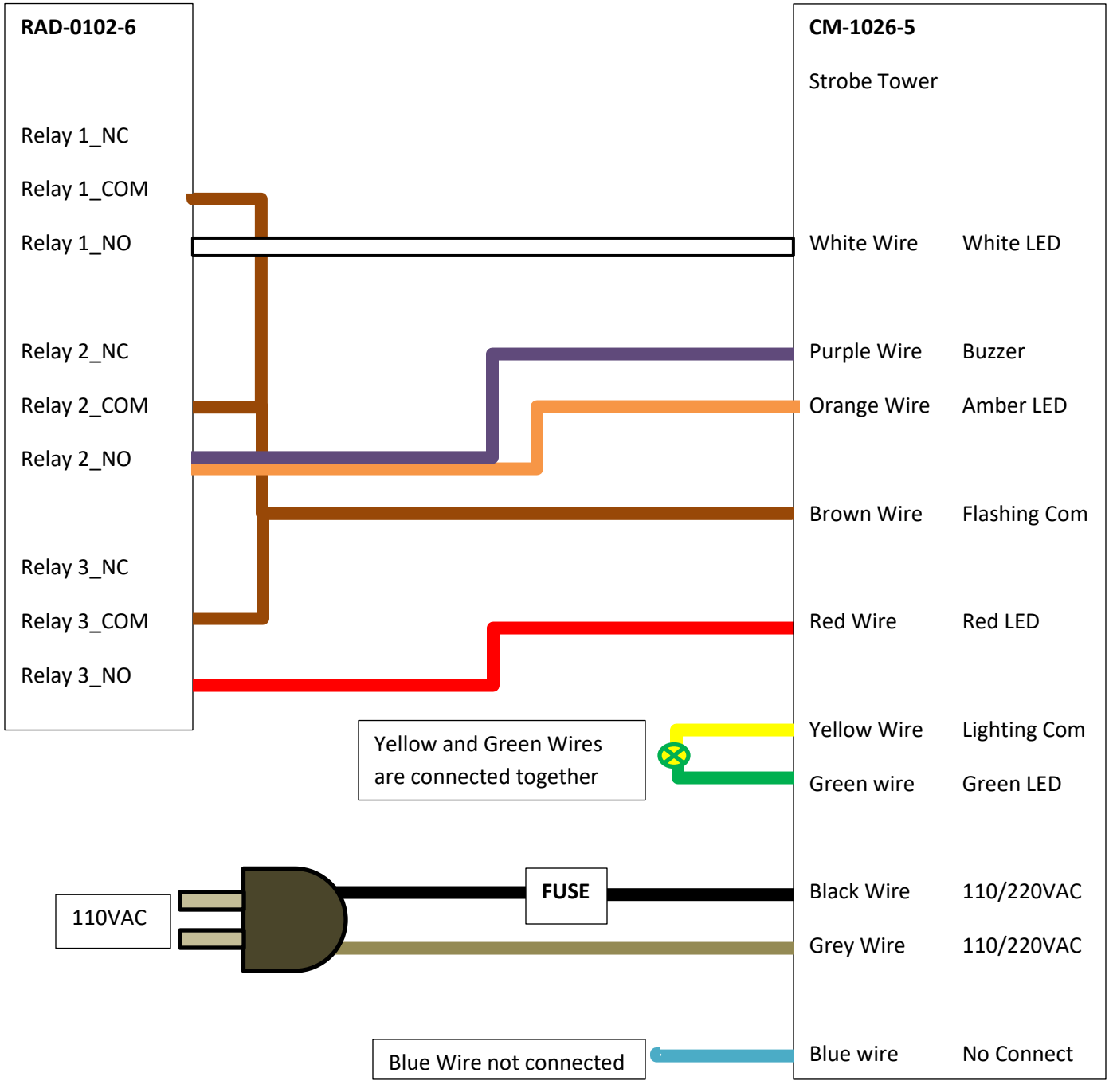
RAD-0102-6 can be connected to **CM-1026-5 Strobe Tower** as shown in the diagram below:

Green LED will illuminate when the Strobe Tower is powered.

White LED will flash when Alarm 1 is activated.

Amber LED will flash and Buzzer will sound when Alarm 2 is activated.

Red LED will flash and Buzzer will sound when Alarm 3 is activated.

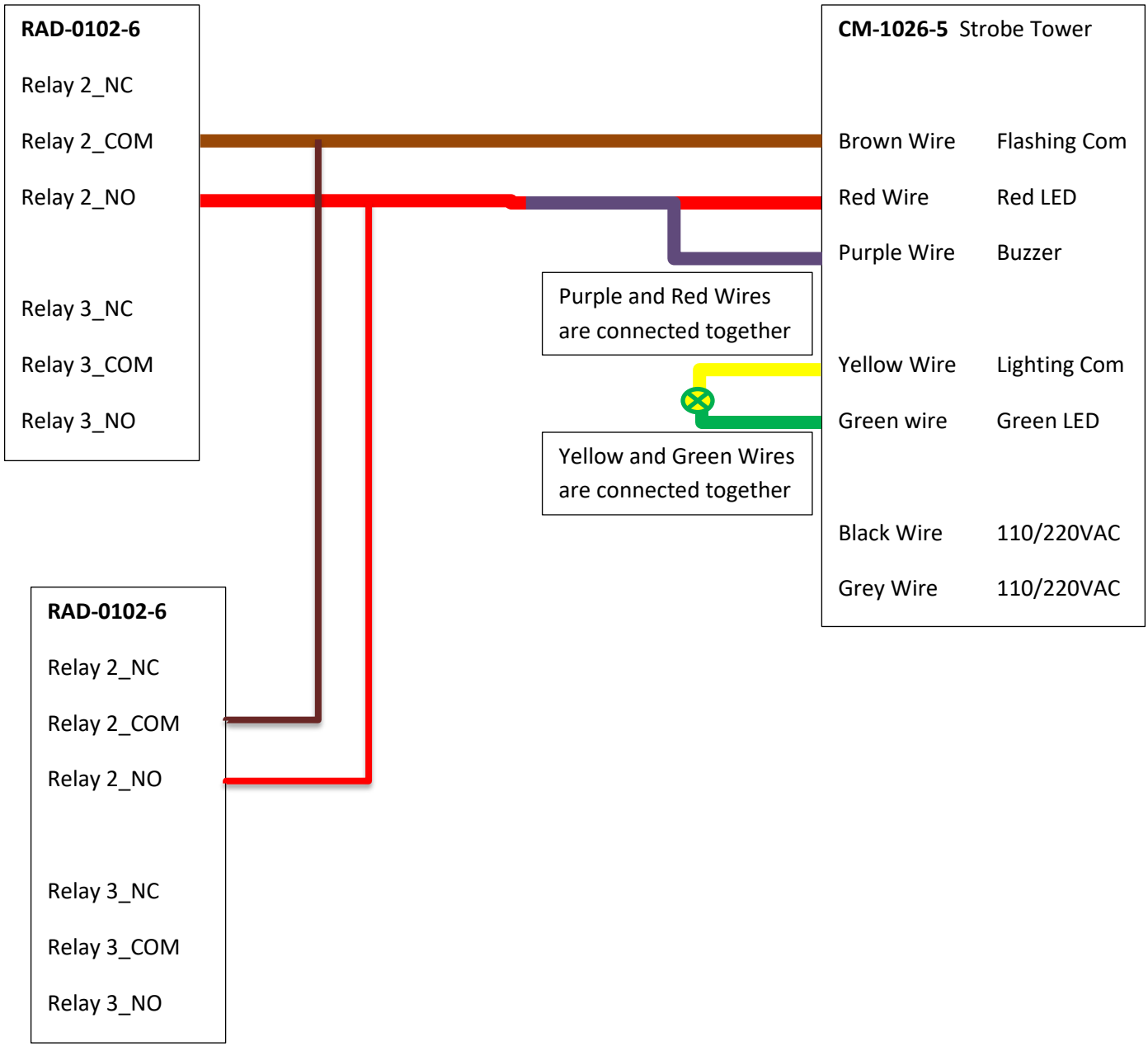


Connecting Multiple RAD-0102-6 to a CM-1026-5 Strobe Tower

Multiple RAD-0102-6 can be connected to a **CM-1026-5 Strobe Tower**:

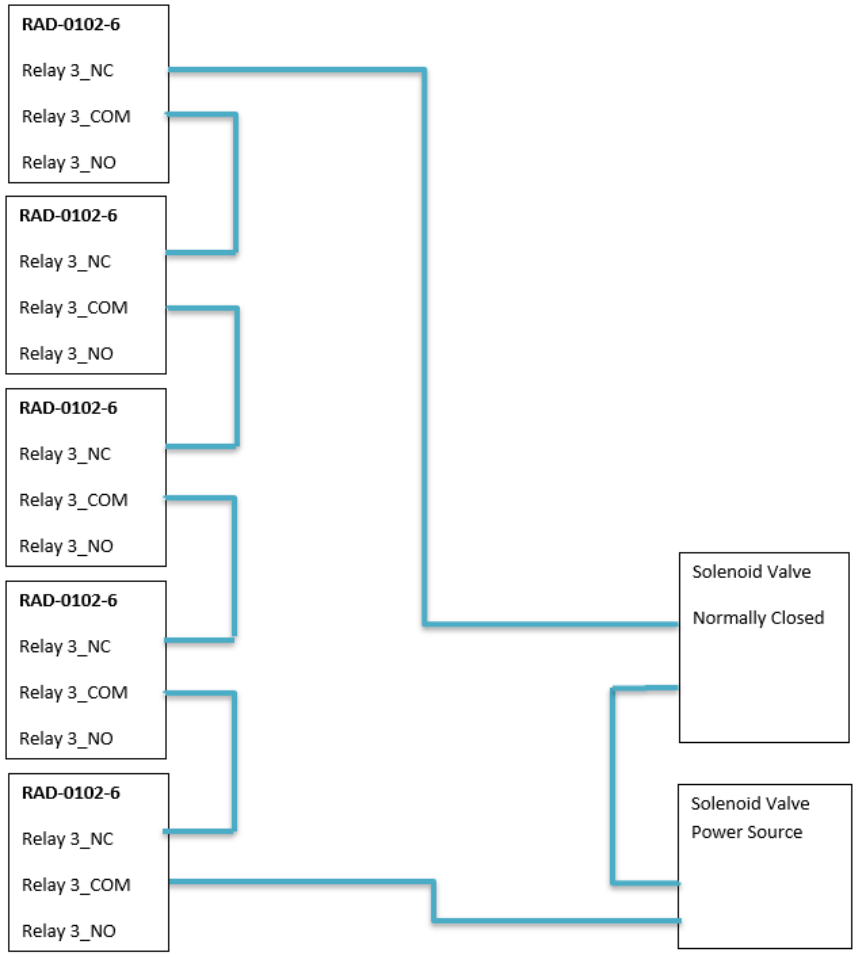
Green LED will illuminate when the Strobe Tower is powered.

Red LED will flash and Buzzer will sound when Alarm 2 is activated.



Connecting Multiple RAD-0102-6 CO2 Monitors to a Single SV-1026 Solenoid Valve in Series

Multiple RAD-0102-6's can be connected to a single **Solenoid Valve**:
In this configuration the solenoid valve will close when Alarm 3 is activated on any RAD-0102-6.



CO2Meter Notes

- Recommended maximum cable length should not exceed 300 linear feet
- Note that in this configuration, if the RAD-0102-6 loses power, the valve may not fail closed
- Testing was completed with five (**5**) RAD-0102-6 monitors and (**1**) SV-1026 Solenoid Valve
- Utilizing other components may nullify the accuracy of this diagram
- No assurances can be made on systems that include more devices or valves

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Support (386) 256-4910
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Connecting Multiple RAD-0102-6

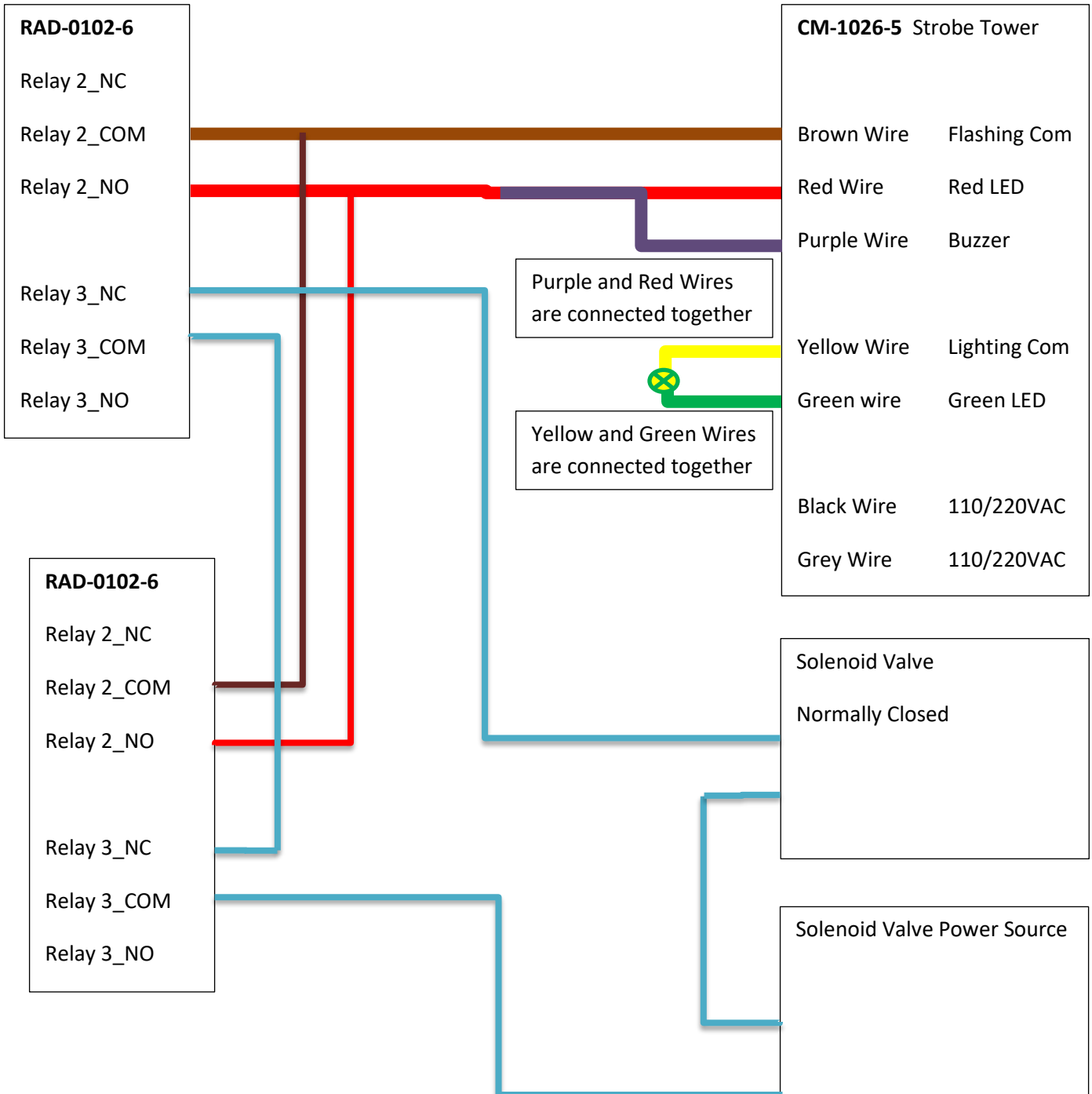
to CM-1026-5 Strobe Tower and Solenoid Valve

Multiple RAD-0102-6 can be connected to **CM-1026-5 Strobe Tower** and **Solenoid Valve**:

Green LED will illuminate when the Strobe Tower is powered.

Red LED will flash and Buzzer will sound when Alarm 2 is activated.

Solenoid Valve will close when Alarm 3 is activated.



Connecting RAD-0102-6 to CM-1026-5 Strobe Tower

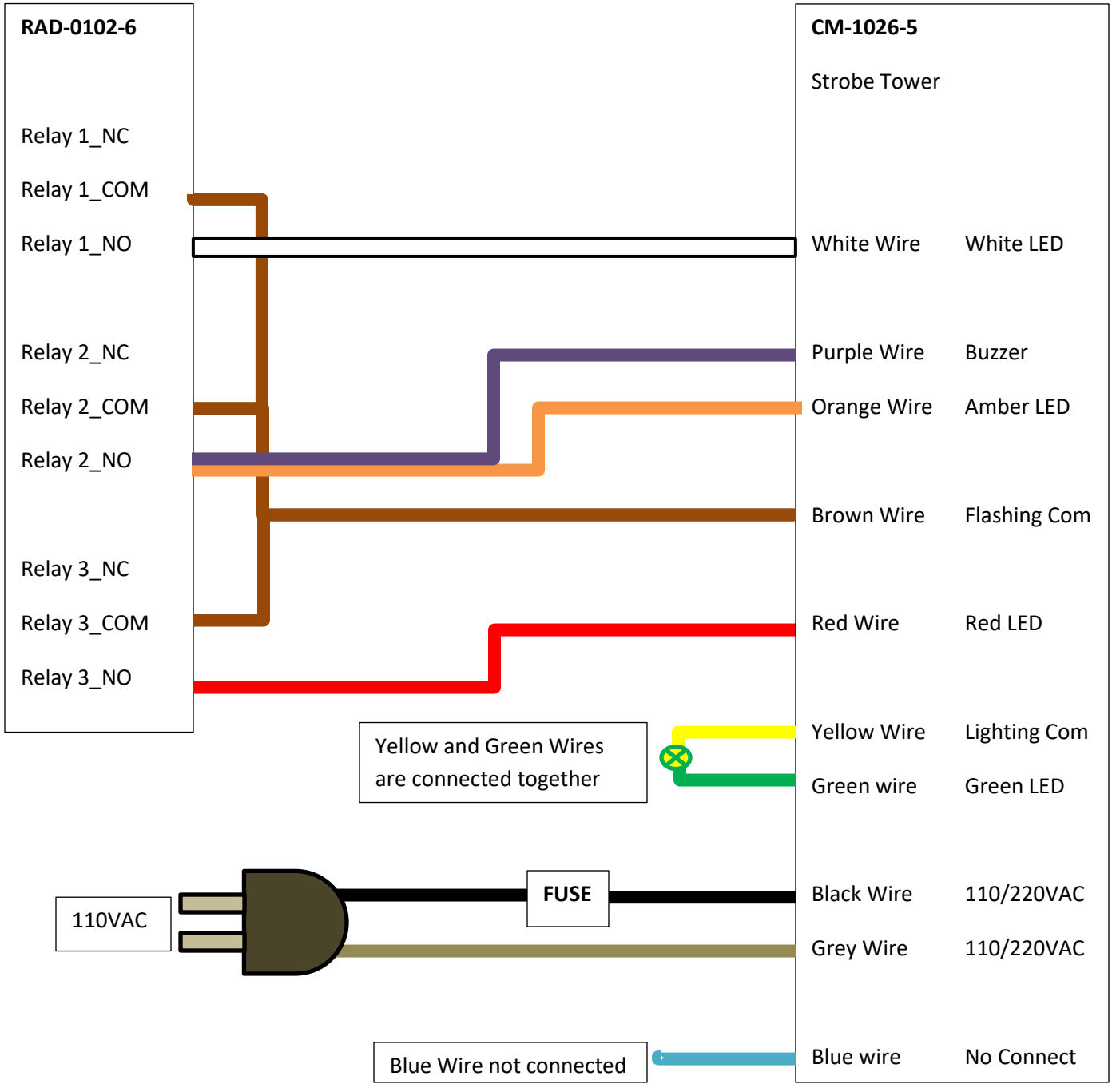
RAD-0102-6 can be connected to **CM-1026-5 Strobe Tower** as shown in the diagram below:

Green LED will illuminate when the Strobe Tower is powered.

White LED will flash when Alarm 1 is activated.

Amber LED will flash and Buzzer will sound when Alarm 2 is activated.

Red LED will flash and Buzzer will sound when Alarm 3 is activated.



Connecting RAD-0102-6 to CM-1026-6 24V dc Strobe Tower

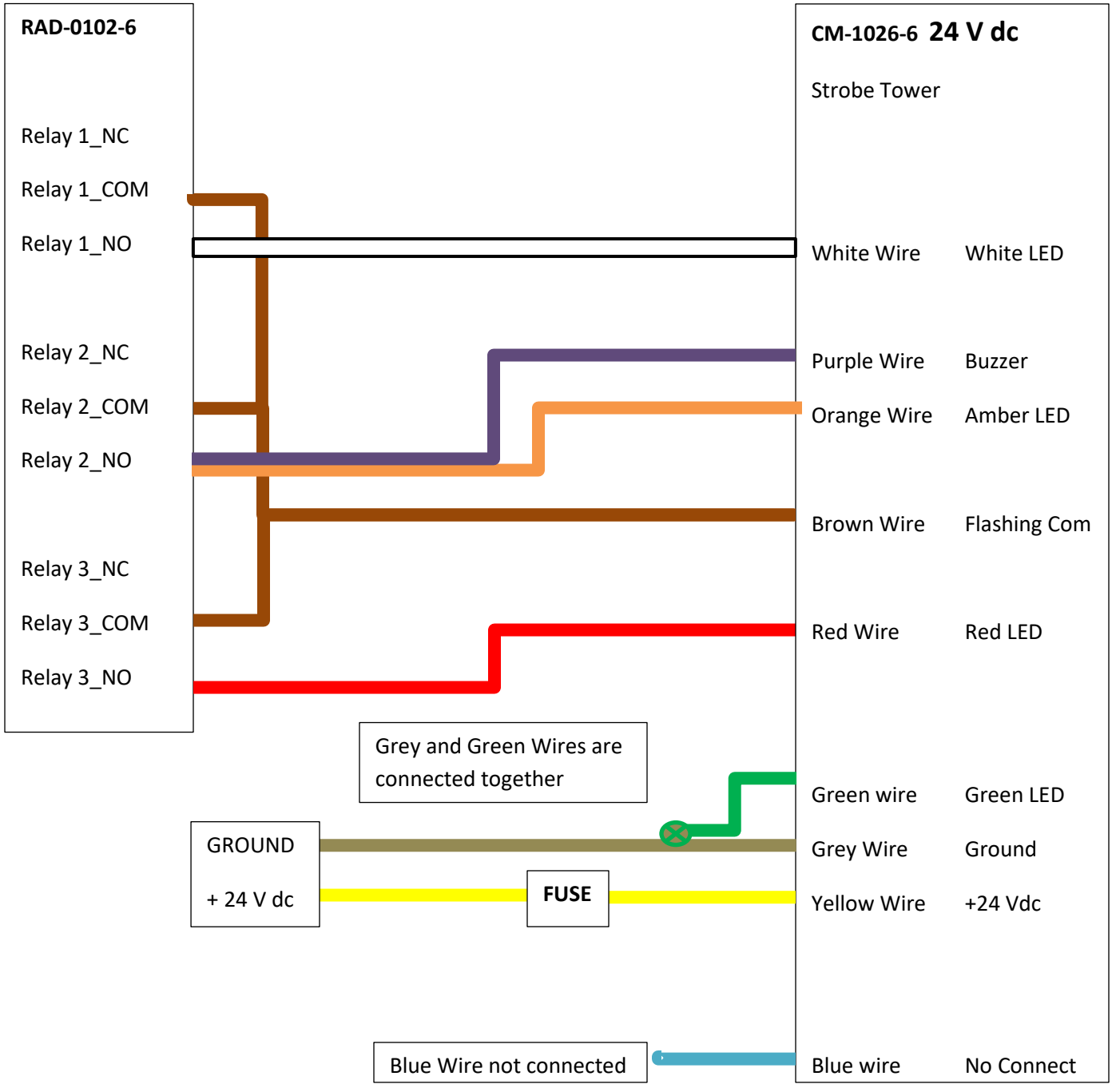
RAD-0102-6 can be connected to **CM-1026-6 Strobe Tower 24V DC** as shown in the diagram below:

Green LED will illuminate when the Strobe Tower is powered.

White LED will flash when Alarm 1 is activated.

Amber LED will flash and Buzzer will sound when Alarm 2 is activated.

Red LED will flash and Buzzer will sound when Alarm 3 is activated.



RAD-0102-6 Remote CO2 Storage Safety Alarm Testing Procedures

Products Required

- Small (5-20 lbs.) cylinder of mixed gas: 5% CO2 BALANCE NITROGEN
- Flow Regulator
- Tubing with ID of 3/16”







Purchase the mixed gas required from your local gas distributor.

Connect the flow regulator to the cylinder.

Connect the tubing to the outlet of the flow regulator.

Performing the Test

Ensure that your CO2 safety monitor is installed and operating correctly.

Locate the sensor on the device (it sits behind the hole in the top left corner of the main unit)



Open the valve on the gas cylinder.

Turn the flow regulator to open so that 0.5-1.0 liters of CO2 are flowing per minute.

Direct the head of the tubing at the sensor location on the monitor. Leave at least 1” between the tube and the sensor opening to prevent damage to the sensor.



The device will begin to display increasing PPM values of CO2 eventually driving the device in to all three alarm stages.

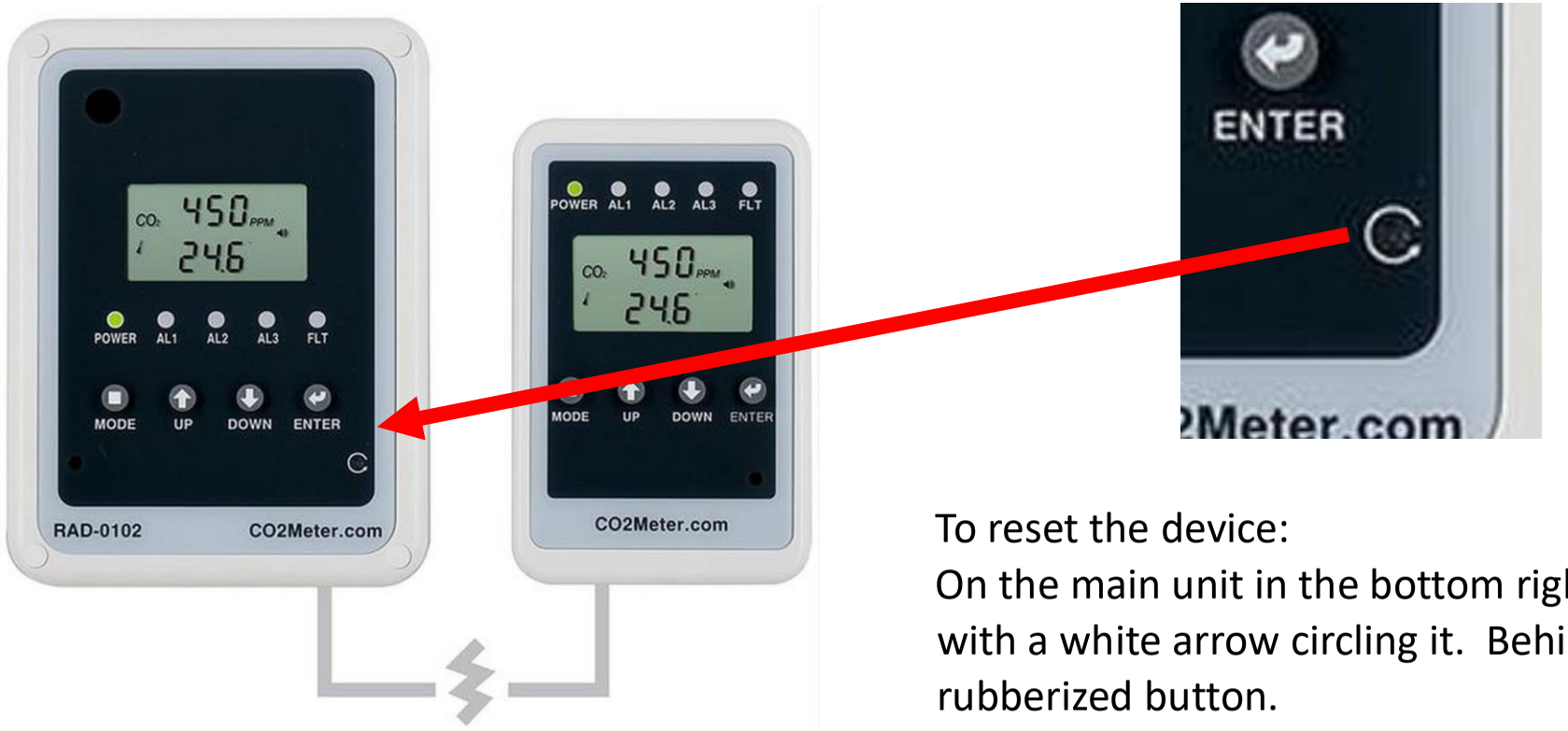
Discontinue the flow of gas once the testing parameters have been satisfied.

The device will work its way back out of alarm status on its own in reverse order of its ascension.

If the “FLT” light is flashing reset the unit utilizing the directions in the document titled “Resetting your RAD-0102-6 Remote CO2 Storage Safety Three Alarm Monitor”

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Resetting Your RAD-0102-6 Remote CO2 Storage Safety Monitor



To reset the device:
On the main unit in the bottom right-hand corner is a small hole with a white arrow circling it. Behind this hole is a soft, rubberized button.

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Use the head of a pen to gently depress and release the recessed button. This will initiate a full device reset, including a brief countdown and activation of all visual and audible indicators.

UL PRODUCT CATEGORY

Measuring, Testing and Signal-generation Equipment

See General Information for Measuring, Testing and Signal-generation Equipment

CO2 METER INC E500394
131 BUSINESS CENTER DRIVE A-3
ORMOND BEACH, FL 32174 USA

Investigated to ANSI/UL 61010-1

Gas monitor Model(s) RAD-0002, RAD-0102-6,

Last Updated on 2018-12-20

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See General Information for Measuring, Testing and Signal-generation Equipment Certified for Canada

CO2 METER INC
131 BUSINESS CENTER DRIVE A-3
ORMOND BEACH, FL 32174 USA

E500394

Investigated to CAN/CSA-C22.2 No. 61010-1

Gas monitor Model(s) RAD-0002, RAD-0102-6,

Last Updated on 2018-12-20

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