

CO2METER REMOTE SAFETY ALARMS

ENSURING A SAFE WORKING ENVIRONMENT



RAD-0102-6 3 ALARM SYSTEM

- 5% CO₂ & Temperature Monitor
- Wired Remote Display/Alarm
- 3 Relays with Adjustable Alarms
- Strobe Lights Available as Add-on

The CO₂ Storage Safety Alarm is designed to protect people who work near carbon dioxide stored in closets or confined spaces. At high levels, CO₂ can result in problems ranging from headaches and fatigue to asphyxiation and even death.

CO₂ alarms are critical and may be required in breweries, wineries, beverage dispensing areas, restaurants, fast food establishments, dry ice storage, CO₂ storage tanks, laboratories, or anywhere CO₂ is stored or produced in high volume.

The CO₂ Storage Safety Alarm has both an audible alarm and flashing visual indicator when CO₂ concentrations reach a pre-set level. Three built-in relays can be used to control ventilation, your HVAC system, or even be wired to an alarm panel to notify your alarm company or the fire department.

Best of all, the CO₂ Storage Safety Alarm is easy to install and use. Simply mount both units on the wall (all cables and hardware included), plug the display unit into a standard wall jack, and the alarm is ready to protect you, your customers and employees.

RAD-0102-6 SPECIFICATIONS

- **Sensors:**

0-5% (50,000 ppm) NDIR CO₂

- Built-in altitude compensation
- Temperature

- **Alarm & Relay Default Set Points:**

- 1st Alarm: 5,000 ppm TWA
- 2nd Alarm: 1.5% CO₂
- 3rd Alarm: 3% CO₂

- **Measurement Interval: every 2 seconds**

- **Operating Temperature: 0°-50°C (32°-122°F)**

- **Calibration: Manual calibration with test gas**

- **Sensor Life Expectancy: 10-15 years**

- **Power Options:**

- 110-220VAC
- 24VDC
- 6VDC battery backup

Part no. RAD-0102-6

Optional: CM-1027 Strobes Add-On

RAD-0102-6 PRODUCT ADVANTAGES

- Sensor connects with Remote Display Unit up to 250 ft (91 m) away. 25 ft (8 m) cable included.
- Up to 3 Remote Display Units can be daisy chained to allow warnings at multiple locations.
- Large digital LCD display clearly indicates the current CO₂ level and temperature.
- Relay outputs can automatically control a fan or blower to ventilate confined spaces.
- 88dB Audible and visual alarm. Optional Strobe Add-ons.
- IP65 enclosure is splash proof.
- Field configurable for additional strobes.



CO2METER REMOTE SAFETY ALARMS

ENSURING A SAFE WORKING ENVIRONMENT

CONNECTING THE RAD-0102-6 OXYGEN DEFICIENCY MONITOR TO THE CHART E-STOP PANEL

Connect wires from the oxygen safety monitor alarm to the E-Stop panel as follows:

- Connect a **BLUE** wire from terminal #103 in the E-Stop panel to the NC terminal of the RAD-0102-6 Oxygen Deficiency Monitor
- Connect a wire **WHITE** from terminal #104 in the E-Stop panel to the COM terminal of the RAD-0102-6 Oxygen Deficiency Monitor.

A Note: The RAD-0102-6 monitor has 3 alarms available labeled "AL1", "AL2" and "AL3"

AL1 triggers relay 1 of the RAD-0102-6

AL2 triggers relay 2 of the RAD-0102-6

Relay 3 is a fault indicator triggered by power loss of the RAD-0102-6

The alarms are negative acting, meaning the alarm will trip as the oxygen level drops below the set-point.

Each of these alarms has its own set-point. which can be adjusted by the user.

- Connect a **RED** wire from terminal #104 in the E-Stop panel to the COM terminal of the "FAULT" relay in the of the RAD-0102-6 Oxygen Deficiency Monitor. The "FAULT" relay is Relay 3.
- Connect a **WHITE** wire from terminal #105 in the E-Stop panel to the NO terminal of the "FAULT" relay in the RAD-0102-6 Oxygen Deficiency Monitor.

