



CO643 Commercial

The CO643 is a Carbon Monoxide (CO) monitor designed for use where ventilation systems are required to prevent CO from accumulating above the level deemed safe for working conditions. The sensor monitors CO gas level (ppm) of the ambient air and activates the ventilation system above First 'set-point' (concentration ppm of CO) and sounds an alarm when CO level is above Second 'set-point' (concentration ppm of CO) for more than 15 minutes. The monitor lowers operating cost by activating the fans only when required to maintain good air quality. It enhances safety by audio and visual alarming if dangerous CO gas levels are detected.



Features

- ▶ Long sensor life - proven semi-conductor technology
- ▶ Calibrated to carbon monoxide - specific
- ▶ Preset alarm levels, no adjustment required
- ▶ Unit is self-monitoring against system failures
- ▶ 3 status indicators
- ▶ Reset button to acknowledge and shut off alarm for 15 minutes
- ▶ Distinct 85dB alarm
- ▶ System Test Feature
- ▶ Will monitor an area of up to 5,000 sq. ft.
- ▶ Easy to install

OPERATION DETAILS

1. Condition - Normal
Operation - Green LED 'ON' as a power indicator
2. Condition - Lo alarm > 50 ppm & > 100 ppm
Operation - Red LED blinding, 5A relay is activated --
2 yellow wires shorted
3. Condition - Hi alarm > 100 ppm for min. 15 mins. & max. 17.5 mins.
Operation - Red LED 'ON', buzzer 'ON', 0.6A relay activated,
i.e. black and red wires are shorted in addition
to the activated 5A relay.
4. Condition - Reset button pressed
Operation - Buzzer turned off, wait for 15 mins. to activate buzzer again
if CO concentration stays above 100 ppm. Wait 2.5 mins. to
sample CO Concentration again.
Red LED condition is the same as before reset button is pressed,
i.e. Hi-alarm with red LED on, Lo-alarm with red LED blinking.
5A relay also stays in the same condition as before reset button
is pressed. 0.6A relay is 'OFF' and will be activated with the buzzer
if Hi-alarm is reached again.
5. Condition - Malfunction of sensor circuitry
Operation - Yellow LED 'ON'

Detail relay rating:

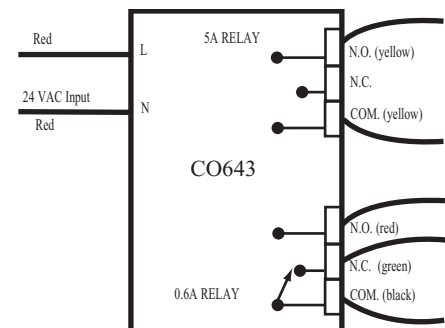
- a. 5A 125V AC resistive for low gas level alarm (50 ppm CO)
5A 30V DC resistive
- b. 0.6A 125V AC resistive for high gas level alarm (100 ppm CO)
0.6A 110V DC resistive
2A 30V DC resistive

Order Information

Order: CO643

Specifications

Dimensions:	4.6" x 7.6" x 2.0"
Weight:	600g
Power Supply:	24VAC 0.7A
Operating Temperature:	0° to 40°C
Calibration Level:	50 ppm and 100 ppm at 25°C / or 35 ppm and 70 ppm (optional on ordering)
Relay Contact Rating:	One relay rated 5A 125VAC restive, single pole single throw. One relay rated 0.6A 125VAC restive, single pole double throw (contacts protection circuit not provided)
Audible Alarm:	85dB at 10 feet
Indicators:	Alarm (50 ppm): Blinking red LED Alarm (100 ppm): Steady red LED Malfunction: Yellow LED Power On: Green LED
Alarm Reset:	Automatic reset when alarm condition cleared
Sensor:	Solid state semiconductor
Warranty:	1 Year
Life Expectancy:	10 Years



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