## **Specialty Gas Equipment**



**MISCELLANEOUS EQUIPMENT** 

## CO<sub>2</sub> Sentry

**Description:** The  $CO_2$  Sentry is designed to detect the presence of carbon dioxide in ambient air and warn individuals in confined spaces of an unsafe condition. Carbon Dioxide ( $CO_2$ ) is a colorless, odorless gas which normally exists in air. High concentrations of  $CO_2$  in confined spaces are dangerous, and may lead to health problems ranging from headaches and fatigue to asphyxiation and death. An audible alarm and visual indication activate when  $CO_2$  concentration reaches a pre-set notification level. Detection of high levels of  $CO_2$  will also activate a relay that could be used for a fan to ventilate the confined space and reduce  $CO_2$  concentrations in the area. The  $CO_2$  monitor can be used in cellars, breweries, beverage dispensing areas, incubator applications and  $CO_2$  storage rooms.

## **Design Features**

- Non-Dispersive Infra-Red technology used to measure CO<sub>2</sub> concentration up to 50,000 ppm
  Easy-to-read digital display
- Lasy-to-read digital display clearly indicates ambient CO<sub>2</sub> concentrations
  Dual mode integrated Alarms
- provide both audible and visual indication • Relay output
- can automatically control a fan to ventilate a confined space Weatherproof design
- provides protection from dust and water entry
- Minimum sensor life of 5 years

Temperature Specifications	
Temperature Range	Display 32°F to 122 °F (0 °C to 50 °C)
Display Resolution	0.1°F (0.1 °C)
Display Options	°F / °C
Accuracy	± 2 °F (±1 °C)
Response Time	20-30 minutes (case must equalize with environment)

<b>Operating Specifications</b>		
Operating Temperature	32°F to 122 °F (0 °C to 50 °C)	
Humidity Range	0 ~ 95% RH non-condensing	
Altitude Range	0 ~ 600 m (0 ~ 1969ft) without com-	
	pensation	



**Gas Detectors** 

Y78-CO2MNTR pictured

<b>CO<sub>2</sub> Specifications</b>		
Measurement Range	0 – 50,000 ppm (5%) display	
Display Resolution	10 ppm	
Accuracy	$\pm$ 100 ppm or $\pm$ 5% of reading	
Repeatability	± 20 ppm @ 400 ppm	
Annual Drift	<20 ppm/Year	
Temperature Dependence	$\pm 0.2\%$ of reading per OC or $\pm$ 2 ppm per	
	°C, whichever is greater, referenced to 25	
	°C	
Pressure Dependence	0.13% of reading per mm Hg (corrected	
	via user input for altitude)	
Response Time	<60 seconds for 90% response to step	
	change	
Warm-Up Time	<60 seconds at 22 °C	

Single-Stage Ordering Information				
Product Number	Description	Dimensions	Power Supply	
Y78-CO2MNTR	Sentry CO <sub>2</sub> Ambient Gas Detector with Remote Display Unit	Sensor Unit: 4.75"H x 7.0"W x 1.75"D Sensor Unit: 4.75"H x 3.2"W x 1.0"D	AC adapter 110/220 VAC	