

VALUE THROUGH PERFORMANCE

# SERIES 1000

CARBON MONOXIDE MONITOR  
FOR COMPRESSED BREATHING AIR



DELTECH

*"Improving the quality of the air you breathe"*

# Series 1000 - Carbon Monoxide Monitor For Compressed Breathing Air

Carbon monoxide is colorless, odorless and tasteless; it is also the most toxic of the common contaminants in compressed air. Accordingly, if you are selecting a carbon monoxide monitor for your compressed breathing air system you want a monitor you can rely on — for both accuracy and dependability. You want the Deltech Series 1000 monitor.

## Product Description

The Series 1000 carbon monoxide monitor is housed in a NEMA 4 fiberglass enclosure. It can be easily mounted to a wall or a component in the compressed air system. The monitor is designed for continuous operation; it requires minimal attention to assure safe and accurate operation.



## A state-of-the-art monitor

The Deltech Series 1000 monitor provides the most advanced means of continuous monitoring for carbon monoxide in breathing air. The monitor provides a digital LED readout of carbon monoxide concentration and actuates both visual and audible alarms when preset levels are reached.

The compact monitor comes fully assembled, ready to install in your compressed air system. Apply power and it is fully operational within 5 seconds.

The Series 1000 monitor is designed for simple, trouble-free use and maintenance. Standard features include:

- Digital display that continuously indicates the level of carbon monoxide detected
- High and low alarm setpoints
- Visual alarms
- A 90db alarm horn with silence switch
- Remote dry contacts
- NEMA 4-rated enclosure
- 0-200 ppm CO range
- Push-to-test button to verify audible and visual alarms

## How it works

Air from the compressed air line first goes through a restrictor which limits the flow and reduces the pressure. The air then passes through a 4-way valve, a flowmeter and into the monitor. Inside the monitor the air is analyzed by a sensor that produces a small voltage proportional to the amount of carbon monoxide in the sample gas. This voltage is amplified, filtered and electronically conditioned by the analyzer circuit board. The resulting signal is then displayed on the LED display and compared with the two adjustable alarms. The alarms are triggered if the signal reaches the predetermined setpoints.

## The sensor

The sensor in the Series 1000 is a unique gel-type fuel cell that measures carbon monoxide directly. The small, rugged sensor is easily replaceable, will not leak and is unaffected by most background gases.

## Calibration

Calibrating the Series 1000 monitor is simple. Just connect the calibration gases to the calibration connection port on the 4-way valve and adjust the

potentiometers as necessary. For maximum convenience, the potentiometers are located on the control panel. Calibration can be completed in a few minutes.

## Specifications

Model designation	Series 1000
Size	7" x 11" x 6.5" (178 x 279 x 165 mm)
Weight	6 lbs. (2.7 kg)
Range CO	0-200 ppm
Ambient temp. range	35° to 125°F (2° to 52°C)
Power required	115 VAC 60 Hz
Supply pressure max.	150 psig (10.3 bar)
Supply pressure min.	25 psig (1.7 bar)
Sample	
flow	1-5 scfh min.
temperature	23° to 120°F (-5° to 49°C)
Sensor type	electrochemical fuel cell
Cell life	1 to 2 years (typical)
Factory alarm setpoint	
low*	10 ppm
high*	50 ppm
Calibration period	monthly
Alarms	
Visual	Large red LED
Audible	90 db horn w/silence switch
Relay	Dry contacts (N.O. & N.C.)

\*Field adjustable



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