

## *CO<sub>2</sub> MULTI MONITOR*

The GMI CO<sub>2</sub> Multi Monitor is the new state-of-the-art fixed Infra-Red gas monitor from GMI. Using the proven detection method of non dispersive infra-red (IR), the new CO<sub>2</sub> Multi Monitor has enhanced reliability and stability ensuring the standards and quality required for the 21st Century are met.

The CO<sub>2</sub> Multi Monitor can be set up for specific user requirements and linked to alarm devices and other systems within your facility.

Fault detection is an integral part of the CO<sub>2</sub> Multi Monitor including monitoring of the IR source and gas flow to ensure reliable gas measurements. Alarm and Fault relays can be configured to provide remote audible and visual warning should a gas alarm or system fault occur.



### **FEATURES**

- ◆ Up to 8 sample inputs
- ◆ Microprocessor controlled and fully configurable to suit individual user requirements
- ◆ User friendly setup and calibration using the Active-8-or hand-held unit
- ◆ Operating details can be viewed quickly and easily on the display
- ◆ 3 relay outputs (A1, A2 and FAULT) are provided to drive external devices
- ◆ Can be factory set for 110Vac or 230Vac
- ◆ Unit protected to IP 54 rating
- ◆ 0 to 1V analogue output for a single channel system
- ◆ 4 to 20mA analogue output for a single channel system.

### **APPLICATIONS**

The CO<sub>2</sub> Multi Monitor is the ideal solution for monitoring in the smaller application such as:

- ◆ Landfill Market - monitoring for the ingress of CO<sub>2</sub> into buildings on or adjacent to landfill sites.
- ◆ Brewing and Distilling Markets - ensuring the atmosphere is monitored for CO<sub>2</sub> to protect staff from asphyxiation due to leaking CO<sub>2</sub> which is a bi-product of the process.
- ◆ Nuclear Industry - to monitor in and around the reactor area and at Emergency Muster Stations for CO<sub>2</sub> emissions.
- ◆ General Industry - anywhere CO<sub>2</sub> requires to be detected or monitored (for example, public house cellars, fruit stores, shopping malls, process control in greenhouses and in buildings where CO<sub>2</sub> levels are linked with heating and ventilation systems).

#### Measuring Range

0 to 5% CO<sub>2</sub>

#### Detection Method

Non Dispersive Infra Red

#### Accuracy

Better than +/- 10% actual value

#### Resolution

0.1% CO<sub>2</sub>

#### Temperature Range

+5°C to +40°C

#### Humidity

0 to 95% non condensing

#### Operating Barometric Pressure Range

950mBar to 1060mBar

#### Operating Voltage

110 or 230 Volts AC

#### Options

Four channel sequencer version

Eight channel sequencer version

#### Case Construction

Sheet Steel

#### Degree of Protection

IP 54

#### Size

H = 270mm, W = 400mm, D = 105mm

#### Terminals

Screw Types for cables up to 4mm<sup>2</sup>

#### Weight

7.1kg

#### Display

16 character LCD display (Backlit)

5 LED status indicators

#### Alarm Settings

2 levels adjustable (5% to 95% of range)

#### Relay Ratings

3 SPCO Relays (max. 5 Amps at 240V AC)

#### General

Complies with European Directives

CE approved

### CARBON DIOXIDE GAS CO<sub>2</sub> - GENERAL PROPERTIES

Carbon Dioxide (CO<sub>2</sub>) is a member of the Acid Anhydride chemical family and has a density of 1.52 (Air =1), it is an asphyxiant and a hazard to health.

The Health and Safety Executive (HSE) specify in EH 40 that the short term exposure limit in CO<sub>2</sub> concentration of 1.5% CO<sub>2</sub> in Air is 15 minutes and the long term exposure limit for 8 hours is 0.5% CO<sub>2</sub> in Air.

Due of the importance of CO<sub>2</sub> in the life support function and its widespread use in industry, the monitoring of CO<sub>2</sub> is essential.

CO<sub>2</sub> is a constituent in the make-up of atmospheric air normally in the order of 350ppm. This value has risen from 290ppm since the start of the century due to the use of fossil fuels.

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