

### WHAT IS IT?

The MC-4210-CO/NO Diesel Nullifying Gas Monitor is a self-contained unit housed in a industrial duty polycarbonate enclosure and sealed with a gasket to protect the internal electronics from water and dust. Part of AMR's 4210 series the sensor offers a very low current draw and is easily addressable using three dial switches on the main board as part of a total, facility wide network. Units can be configured to operate on multiple network protocols or as stand-alone monitors. The sensor unit is coated with an RF shielding to prevent interference from two-way communication devices.

### WHAT IT DOES

The MC-4210-CO/NO is designed to significantly reduce nuisance alarms and false Carbon Monoxide readings caused by diesel equipment in covered spaces such as mines, tunnels, and parking garages. The reason CO is affected by diesel engines is they emit Nitric Oxide (NO) in addition to CO at a ratio of approximately 4 to 1.

Using two independent sensors for CO and NO, the AMR MC-4210-CO/NO is able to accurately detect true Carbon Monoxide levels. The monitor is capable of several communications protocols, and offers non-intrusive sensor test and calibration via magnetic switches with integrated, wide range, four-digit display eliminating the need to ever open the enclosure once it is installed.

### FEATURES AND BENEFITS

- Available as O<sub>2</sub>, CO, NO, NO<sub>2</sub>, SO<sub>2</sub>, H<sub>2</sub>S, H<sub>2</sub>
- Stand Alone or part of a complete Atmospheric Monitoring System
- Magnetically activated test and calibration without opening the front cover
- Microprocessor controlled calibration with no mechanical adjustments
- Adjustable alarm and warning outputs
- May be used in hazardous areas with external I.S. barrier
- Low current operation
- Easy to read 4 Digit LCD Display
- Smart operation: Testing and Calibration procedures do not activate alarms
- Network communications indication
- Sealed polycarbonate enclosure
- Optional Input/Output Interface PC Board available



### SPECIFICATIONS

|                       |  |
|-----------------------|--|
| SENSOR TECHNOLOGY     | Electro-Chemical   |
| DETECTION RANGE       | 0 - 25 PPM, or 0 - 50 PPM                                    |
| ENCLOSURE TYPE        | NEMA 4X, High impact, UV-resistant polycarbonate             |
| ENCLOSURE DIMENSIONS  | 7.5" W x 9.5" H x 5.5" D<br>(19.05 cm x 24.12 cm x 13.97 cm) |
| UNIT WEIGHT           | 4 lbs (1.8 kg)   |
| OPERATING VOLTAGE     | 12 - 28 VDC  |
| OPERATING TEMPERATURE | -10 to 70 C  |
| CURRENT CONSUMPTION   | 10 mA  |
| TEMP COMPENSATING     | YES  |
| INPUTS                | (2) 0-3 VDC Status and<br>(2) 0-3 VDC Analog Inputs          |
| OUTPUTS               | (2) 115 VAC or 28 VDC<br>@ 3 VDC Control Outputs             |
| COMMUNICATIONS        | 2 Wire or 4 Wire RS-485<br>(4800 or 38,400 Baud), MODBUS     |
| STAND-ALONE           | 4-20 mA Loop or Voltage Mode                                 |
| DISPLAY               | 4 Digit LCD  |
| WARRANTY              | 180 Days   |