

IRWAVE ELECTRONICS

Model 4001 Multi-Channel Gas Monitoring System

Features:

- * Monitors up to four locations or four different gases simultaneously and continuously
- * High and low alarm levels for each channel
- * Digital Display and alarm indicators on the front panel
- * Modular design allows expansion
- * Weather resistant enclosure
- * Available for monitoring
 - Chlorine (Cl_2)
 - Ammonia (NH_3)
 - Oxygen (O_2)
 - Carbon Monoxide (CO)
 - Combustible Gases (LEL)
 - Hydrogen Sulfide (H_2S)
 - Sulfur Dioxide (SO_2)
 - Nitrogen Dioxide (NO_2)
 - Other gases available.
Consult factory.



Description

The Model 4001 System Controllers provide concentration display, alarm activation, and power supply functions for field mounted gas sensing devices. The system controller works in conjunction with any 4 - 20 mA Sensing Head for monitoring a wide variety of toxic and combustible gases.

The two user adjustable alarm levels for each channel permits you to set the activation points to conform with your particular application or local regulations. The front panel contains a large, highly visible, LED display as well as individual alarm indicators for each channel and level. You are given a comprehensive report on the gas monitoring and instrument status.

The system controller is housed in a rugged, weather-proof housing. These wall mountable enclosures are available in two or four channel sizes. The Model 4001 monitors up to four different sites or different gases from a central location. New gas sensing channels can be added to the system as your needs grow or requirements change.

The Airwave Sensing Heads provide fast, accurate, and reliable response to the gas of concern. In turn, the Model 4001 can be used for activating alarm annunciators or for controlling functions like ventilation based on the measured values. These systems are ideally suited for leak detection, environmental control, worker protection, or other industrial gas monitoring applications.

Sensor Temperature Compensation

Airwave Electronics Ltd. incorporates temperature compensation at the sensor. By using compensation at the sensor, it's response is unaffected by ambient temperature changes and calibration can be conducted irregardless of temperature. This provides an accurate measurement of gas concentrations.

Technical Specifications

Sensor Input:	2 or 3 wire, 4 - 20 mA current loops
Available Sensors:	CO, H ₂ S, NH ₃ , Cl ₂ , NO ₂ , SO ₂ , O ₂ and LEL. Other sensors are available on request.
Concentration display:	Three-digit, high intensity 1 inch high, red LED's.
Alarm Relays:	Two concentration and one fault alarm per channel. Dry contacts, fail safe, NO/NC configuration. User adjustable activation points. Rated for 5 amps @ 115 V ac (resistive load). Built-in time delay for concentration alarms. Optional horns and lights for alarm annunciation.
Electronic Circuitry:	General purpose locations. Low maintenance solid state design.
Power Requirements:	115 V AC (up to 150 watts) or 24 V DC
Construction:	Weather-proof, metal with wall mounting brackets
Size:	Single Channel; 32 x 25 x 20 cm (12.6 x 10 x 8 in) Multiple Channel; 36 x 32 x 20 cm (14.2 x 12.6 x 8 in)

Order Information

Since each application is unique, Airwave Electronics gas monitoring systems are designed to meet your individual requirements. For more information on the gases detected, measuring ranges, alarm options, or other accessories, contact Airwave Electronics Ltd.