Manning AirAlert™ 96d

Honeywell

Acts as the nerve center of a modular gas detection network by providing continuous monitoring of up to 96 sensors

Manning AirAlert™ 96d multi-channel gas monitoring system

96 Sensor Capacity
- Supports up to 96 network devices
- Three distinct channels act as the nerve centre of a modular gas detection network

Menu-Driven Program
- Easily fine-tune applications ranging from minor operational sequences to reconfiguration of entire network
- Simple push-button program facilitates adjustments

Customizable
- Supports any combination of Honeywell Analytics gas sensors, including NH_3, CO_2, H_2, CO, Cl_2, CFC's, HCFC's, HFC's, CH_4, O_2, NO_2, and more
- Field-programmable alarm levels for each sensor
- Zoning capability allows for up to 126 zones

Immediate At-a-Glance Status
- 122 x 32 alphanumeric LCD display provides continuous information for the entire network

Automatic Datalogging Capability
- Controller provides automatic datalogging within cast aluminum enclosure
- Sensor concentrations and alarms is recorded for analysis

Easy Installation
- Cost is reduced by addressable RS-485 MODBUS communication protocol
- Installation requires only two pairs of wires to connect each gas sensors and relay modules to one of the controller's three input channels

Centralized Information
- Interface with or function individually with plant control

The Manning AirAlert™ 96d multi-channel gas monitoring system is designed for installation and operational simplicity for continuous monitoring and control of toxic gases, combustible gases and oxygen hazards.

The Manning AirAlert™ 96d can support up to 96 sensors and relay modules and provides unique at-a-glance system status and can be maintained with ease using the menu driven push button controls.

This easy to use system can be completely customized in an industrial or commercial application by using any combination of Honeywell Analytics sensors. The Manning AirAlert™ 96d has the potential to complete plant control systems by operating independently, interfacing with it to create a reliable stand-alone safety system.

Applications
- Garage Ventilation Control
- IAQ Control
- Perimeter Monitoring
- Refrigerant Leak Detection Monitoring
- Zoned Valve Cut-off Control

Technical summary

General Specification		
Use	Multi-channel gas monitoring system acts as the nerve center of a modular gas detection network, providing continuous monitoring of up to 96 connected units on three distinct channels.	
Common Operation		
Display	Graphic 122 x 82 alphanumeric dot matrix backlit	
Push Button Controls	Seven user-friendly pushbuttons easily performs operations from minor fine tuning to reconfiguration of entire network.	
Electrical Power	24 VDC, 500 mA	
Communication Addressable	RS-485 Modbus protocol	
Power Supply	External PS-24-150-N12 24 VDC, 6.5 amps in Nema 12 enclosure	
Environmental		
Operating Altitude	Up to 3,000 m (9843 ft.)	
Operating Environment	Ordinary location	
Operational Humidity	0-95% RH (non-condensing)	
Temperature	-20°C to +50°C (-4° F t o +122°F)	
Common Module		
Communication	4/20 mA output: #18/3 shielded cable (Belden 8770 or equal), cable runs < 1,500 ft. RS-485: for communication cable, use 24 AWG twisted pair, shielded (Belden #9841 or equal), cable runs up to 2,000 ft. For power cable use 14 AWG (Belden #5100UE or equal), cable runs up to 1,000 feet.	
T-tap	20 m (65 feet) maximum per t-tap, 40 m (130 feet) total	
Network Capacity	Up to 96 sensors, 32 per channel Channel 1, 2, and 3: MODBUS Channel 4: MODBUS output to PLC	
Visual Indicators	Power On Warn Alarm High Alarm Fault Tx Amber Rx	Green LED Red LED (blinks upon an event) Red LED Red LED Yellow LED LED (blinks when used) Green LED (blinks when used)
Outputs		
Relays	4 DPDT relays 5A, 30 Vdc or 250 VAC/30 VDC Field selectable: energized/de-energized Red LED for each relay for alarm indication: One common warn gas alarm One common alarm gas alarm One common high gas alarm One common fault alarm	
Time Delays	0, 30, and 45 seconds, and 1 to 99 minutes before and after alarm	
Enclosure	NEMA 4x, cast aluminum #A356.0T6, EMI/RFI protected	
Over-voltage Category	II	
Dimensions	24.1 x 35.6 x 8.9 cm (9.50" x 14" x 3.5")	
Weight	5.2 kg (11.4 lbs)	

As world leaders in gas detection solutions, Honeywell Analytics' Manning range of gas detection systems has been designed to provide efficient, practical and cost-effective equipment to protect people from a variety of forms of hazardous gas and to efficiently monitor and control indoor air quality. The equipment is also simple to install and easy to operate and maintain.

The Manning range of fixed gas detection and accessories

Manning EC-F9-NH3

Manning Vent Line

Manning AirScan iR

Manning IR-F4-NH_3

Manning Line of Sensors

Designed for both industrial and commercial environments, the Manning line of sensors are produced to withstand the harshest of environments. The electrochemical and infrared sensors can be configured with the optional ATMOS® equipped technology that allows them to meet all of their performance specifications down to -50° F and in condensing humidity environments or during washdown.

Find out more

For more information on Honeywell Analytic's Manning line of products, visit www.honeywellanalytics.com or contact us at 800 444 9935

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Calibration Kit

The do-it-yourself solution for recommended calibration of Manning fixed line of gas detection products enables the product to be recertified for the required sensor recalibration. This easy to use kit contains everything needed for simple calibration including gas cylinders containing applicable gas, a calibration adaptor, flow meter, valve assembly, and tubing housed in a durable carrying case.

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