



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<sub>3</sub>, CO<sub>2</sub>, H<sub>2</sub>, CO, Cl<sub>2</sub>, CFC's, HCFC's, HFC's, CH<sub>4</sub>, O<sub>2</sub>, NO<sub>2</sub>, 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															
<b>Use</b>	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															
<b>Display</b>	Graphic 122 x 82 alphanumeric dot matrix backlit														
<b>Push Button Controls</b>	Seven user-friendly pushbuttons easily performs operations from minor fine tuning to reconfiguration of entire network.														
<b>Electrical Power</b>	24 VDC, 500 mA														
<b>Communication Addressable</b>	RS-485 Modbus protocol														
<b>Power Supply</b>	External PS-24-150-N12 24 VDC, 6.5 amps in Nema 12 enclosure														
Environmental															
<b>Operating Altitude</b>	Up to 3,000 m (9843 ft.)														
<b>Operating Environment</b>	Ordinary location														
<b>Operational Humidity</b>	0-95% RH (non-condensing)														
<b>Temperature</b>	-20°C to +50°C (-4° F to +122°F)														
Common Module															
<b>Communication</b>	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.														
<b>T-tap</b>	20 m (65 feet) maximum per t-tap, 40 m (130 feet) total														
<b>Network Capacity</b>	Up to 96 sensors, 32 per channel Channel 1, 2, and 3: MODBUS Channel 4: MODBUS output to PLC														
<b>Visual Indicators</b>	<table border="0"> <tr> <td>Power On</td> <td>Green LED</td> </tr> <tr> <td>Warn</td> <td>Red LED (blinks upon an event)</td> </tr> <tr> <td>Alarm</td> <td>Red LED</td> </tr> <tr> <td>High Alarm</td> <td>Red LED</td> </tr> <tr> <td>Fault</td> <td>Yellow LED</td> </tr> <tr> <td>Tx Amber</td> <td>LED (blinks when used)</td> </tr> <tr> <td>Rx</td> <td>Green LED (blinks when used)</td> </tr> </table>	Power On	Green LED	Warn	Red LED (blinks upon an event)	Alarm	Red LED	High Alarm	Red LED	Fault	Yellow LED	Tx Amber	LED (blinks when used)	Rx	Green LED (blinks when used)
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Outputs															
<b>Relays</b>	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														
<b>Time Delays</b>	0, 30, and 45 seconds, and 1 to 99 minutes before and after alarm														
<b>Enclosure</b>	NEMA 4x, cast aluminum #A356.0T6, EMI/RFI protected														
<b>Over-voltage Category</b>	II														
<b>Dimensions</b>	24.1 x 35.6 x 8.9 cm (9.50" x 14" x 3.5")														
<b>Weight</b>	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-NH3

### 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](http://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.

# Honeywell