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

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.

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 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 — 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)

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)

Honeywell Analytics Lines of Business

Commercial

Vulcain-brand gas detection from stand-alone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance

» Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

Industrial

Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

» Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial

Portables

Single or multi-gas Lumidor and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

» Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets

Find out more

www.honeywellanalytics.com

Contact Honeywell Analytics:

Americas

Honeywell Analytics Inc.
23500 W. 105th Street, MD 400
Olathe, KS 66061
Tel: +1 913 712 5576
Toll free: +1 800 444 9935
Fax: +1 913 712 5580
Toll free fax: +1 888 328 2417
detectgas@honeywell.com

Canada

Honeywell Analytics Inc.
4005 Matte Blvd., Unit G
Brossard, QC, Canada
J4Y 2P4
Tel: +1 450 619 2450
Toll free: +1 800 563 2967
Fax: +1 888 967 9938
detectgas@honeywell.com

Technical Services

ha.us.service@honeywell.com

www.honeywell.com

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Europe, Middle East, Africa

Life Safety Distribution AG
Wilstrasse 11-U31
CH-8610 Uster
Switzerland
Tel: +41 (0)44 943 4300
Fax: +41 (0)44 943 4398
gasdetection@honeywell.com

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Asia Pacific

Honeywell Analytics Asia Pacific
#508, Kolon Science Valley (l)
187-10 Guro-Dong, Guro-Gu
Seoul, 152-050
Korea
Tel: +82 (0)2 2025 0307
Fax: +82 (0)2 2025 0329
analytics.ap@honeywell.com

Honeywell