



AirAware

Gas Detection System



Presentation

Industry proven performance combined with a low-profile design make a logical choice for those areas that require continuous monitoring but not the environmental protection of an a weather-proof or XP enclosure. Providing discrete monitoring and enhanced aesthetics for more commercial or institutional settings, the AirAware Series is the ideal solution for reliable, low-cost fixed-point monitoring.

The AirAware can be configured to operate as a monitor with local LED display, a controller with onboard relay switching capability, a transmitter with 4-20 mA or ModBus RTU outputs, or as a transmitter with on-board relays. Each configuration is designed to meet your specific indoor monitoring needs.

Every AirAware is equipped with electrochemical sensing technology, dual alarm LEDs and push-button operation.

Configure your AirAware to match your needs, adding options such as a vanity plate to hide the display. The AirAware is covered by a one-year warranty and carries CSA approval for non-hazardous locations.

Features

- Institutional, commercial and light industrial monitoring
- Monitor any one of seven gases
- Simple installation using 12-24 VDC operation, or an optional AC power adapter that plugs into any standard 120 VAC wall outlet (North American plug).
- Bright display constantly shows gas concentrations
- Single button calibration, alarm muting and zero functions
- Visual alarm to alert of potential gas hazards (audio optional)
- ModBus digital output (4-20 mA output optional) for interfacing with control devices
- Optional dual-alarm relays can interface with a fire alarm panel, turn on fans and warning sirens, or shut-down a process.



AirAware™ has numerous sensor and equipment configurations that allow you to customize the monitor to meet your specific needs. The following matrix will help you to select the options with a single part number. For example, a part number of 68100056-11110 would be an AirAware Carbon Monoxide (CO) monitor with an on-board audible alarm, optional relay contacts, and a 120 VAC power adapter.

Base part number : 68100056-ABCDE

A-Gas type	1 - Carbon Monoxide (CO) 3 - Ammonia (NH ₃) 4 - Hydrogen Sulfide (H ₂ S) 5 - Sulfur Dioxide (SO ₂) 6 - Nitrogen Dioxide (NO ₂) A - Oxygen (O ₂)
B-On-board alarm	0 - No audio alarm 1 - On-board audio alarm
C-Output option	0 - None 1 - On-board relays (Control) 3 - 4-20mA output and relays (Control/Transmit)
D-Power option	0 - No adapter 1 - AC Power Adapter (Installed)
E-Vanity plate (faceplate cover) option	0 - None (order as option 67001198)

*Note: AC Adapter is 110 VAC to 24 VDC, N. American plug.

Specifications

Case	NEMA 2 (IP42) type general purpose indoor use only Electroplated for RFI protection.
Dimensions	18.29 cm x 14.22 cm x 4.06 cm (7.2"x 5.6"x 1.6")
Weight	482 g (17 oz)
Sensor Type	Electrochemical
Measuring Ranges	Ammonia (NH ₃) 0-100ppm Carbon Monoxide (CO) 0-999ppm Hydrogen Sulfide (H ₂ S) 0-999ppm Nitrogen Dioxide (NO ₂) 0.2-99.9ppm Oxygen (O ₂) 0.0-30.0% Sulfur Dioxide (SO ₂) 0.2-99.9ppm
Power source	12 - 24 VDC / 125 mA
Temperature Ranges	-20°C to 50°C (-4°F to 122°F) sensor dependent
Audio Alarm	85 dB @ 1 meter
Relays	5A @ 30 VDC, NO-NC
Humidity Range	Oxygen - 0-99% Ammonia, Carbon Monoxide, Hydrogen Sulfide, Nitrogen Dioxide, Sulfur Dioxide - 15-90%
Approvals	CSA - C22.2 No. 205-M1983 (non-hazardous locations)
Warranty	One year, including sensor

Part Number	Description
Common configurations	
68100056-11010	CO Monitor, audio alarm, power supply
68100056-11110	CO Monitor, audio alarm, relays, power supply
68100056-11300	CO Monitor, audio alarm, relays, 4-20 mA
68100056-11310	CO Monitor, audio alarm, relays, 4-20 mA, power supply
68100056-31010	NH ₃ Monitor, audio alarm, power supply
68100056-41010	H ₂ S Monitor, audio alarm, power supply
68100056-51010	SO ₂ Monitor, audio alarm, power supply
68100056-61010	NO ₂ Monitor, audio alarm, power supply
68100056-A1010	O ₂ Monitor, audio alarm, power supply
68100056-A1110	O ₂ Monitor, audio alarm, relays, power supply
68100056-A1300	O ₂ Monitor, audio alarm, relays, 4-20 mA
68100056-A1310	O ₂ Monitor, audio alarm, relays, 4-20 mA, power supply
Accessories	
67001198	Optional Vanity Cover
67000604	Calibration Adaptor Assembly (includes cal adaptor, tubing and reducer)
67000596	Calibration Adaptor for AirAware (adaptor only)
77016632	Audio/Visual Alarm, red lens, low power, 24 VDC

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