



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) 7 - Chlorine (Cl 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 Chlorine (Cl ₂) 0.2-99.9ppm 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
68100056-71010	Cl 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

Teledyne Oldham Simtronics quality assurance programmes demand the continuous assessment and improvement of all our products. Information in this leaflet could thus change without notification and does not constitute a product specification. For more information, please contact us or your company representative.



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