

# ENVIRONMENTAL AIR MONITORING

INSTITUTIONAL • COMMERCIAL • LIGHT INDUSTRIAL



Now Available for  
**AMMONIA**  
Monitoring



## AIR<sup>AWARE</sup>™

### Monitor Any One of Twelve Gases

See back for complete listing of available gas configurations and options

Industry proven performance combined with a new, low-profile design make the Industrial Scientific AirAware™ a logical choice for those critical areas that require continuous monitoring but not the environmental protection of an explosion-proof 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

- ▶ 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)
- ▶ Optional 4-20 mA output for interfacing with almost any control device.
- ▶ Optional dual-alarm relays can turn on fans and warning sirens or shut-down a process.

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, a digital display providing real-time readings, push-button operation and a NEMA 4 type enclosure. When alarm conditions are met, low/high alarm visual indicators alert users to gas hazards.

A number of output options are available that allow the AirAware to communicate to external controllers or control external audible/visual alarms. All AirAware units are ModBus enabled for digital communication back to a PLC or DCS system. An optional 4-20 mA output is also available to connect the AirAware to almost any control device. Relays can also be added to turn on fans or warning sirens, or to shut down a process.

Standard operating power is 12-24 VDC for the AirAware, while a 120 VAC power supply option is available for convenient plug-in monitoring applications. Configure your AirAware to match your needs, adding options such as on-board audible alarm for maximum attention, or a vanity plate to hide the display. The AirAware is covered by a one-year warranty and carries CSA approval for non-hazardous locations.



REV1205



## Monitor Any One of Twelve Gases

SPECIFICATIONS	
CASE:	NEMA 4 type, General purpose indoor use. Electroplated for RFI protection.
DIMENSIONS:	7.2" x 5.6" x 1.6" (18.29 cm x 14.22 cm x 4.06 cm)
WEIGHT:	16 oz (454 g)
SENSOR TYPE:	Electrochemical
MEASURING RANGES:	Carbon Monoxide (CO) – 0 to 999 ppm
	Hydrogen Sulfide (H <sub>2</sub> S) – 0 to 999 ppm
	Nitric Oxide (NO) – 0 to 999 ppm
	Ammonia (NH <sub>3</sub> ) – 0 to 200 ppm
	Oxygen (O <sub>2</sub> ) – 0 to 30% by volume
	Sulfur Dioxide (SO <sub>2</sub> ) – 0.2 to 99.9 ppm
	Nitrogen Dioxide (NO <sub>2</sub> ) – 0.2 to 99.9 ppm
	Chlorine (Cl <sub>2</sub> ) – 0.2 to 50 ppm
	Chlorine Dioxide (ClO <sub>2</sub> ) – 0.2 to 1 ppm
	Hydrogen Cyanide (HCN) – 0.2 to 30 ppm
	Hydrogen Chloride (HCl) – 0.2 to 30 ppm
	Phosphine (PH <sub>3</sub> ) – 0 to 1 ppm
POWER SOURCE (RUN TIME):	12-24 VDC (110 AC adapter optional with North American plug)
TEMPERATURE RANGES:	-4°F to 122°F (-20°C to 50°C) typical, consult factory for gas specific temperature ranges
HUMIDITY RANGE:	Oxygen – 0% to 99%. Others – 15 to 90%
APPROVALS:	CSA – C.22.2 No. 205-M 1983 (non-hazardous locations); CE (pending)
WARRANTY:	One year, including sensor

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 select the options within a single part number. For example, a part number of 68100056-**11211** would be an AirAware Carbon Monoxide monitor with an on-board audible alarm, a 4-20mA output with no on-board relay contacts, an AC power adapter installed and a vanity/faceplate cover.

### Base Part Number: 68100056-ABCDE

**A** = Gas Type    **B** = On-Board Alarm Option    **C** = Output Option    **D** = Power Option    **E** = Vanity Plate (Faceplate Cover) Option

ORDERING MATRIX					
BASE P/N:	A – Gas Type	B – On-board Alarm	C – Output Option	D – Power Option	E – Vanity Plate Option
68100056-	1 – Carbon Monoxide (CO)	0 – No audio alarm	0 – None	0 – No adapter	0 – None
	2 – Nitric Oxide (NO)	1 – On-board audio alarm	1 – On-board relays	1 – AC Power Adapter*	1 – Vanity Plate
	3 – Ammonia (NH <sub>3</sub> )		2 – 4-20 mA output	(installed)	
	4 – Hydrogen Sulfide (H <sub>2</sub> S)		3 – 4-20 mA output & relays		
	5 – Sulfur Dioxide (SO <sub>2</sub> )				
	6 – Nitrogen Dioxide (NO <sub>2</sub> )				
	7 – Chlorine (Cl <sub>2</sub> )				
	8 – Chlorine Dioxide (ClO <sub>2</sub> )				
	9 – Hydrogen Cyanide (HCN)				
	A – Oxygen (O <sub>2</sub> )				
	F – Hydrogen Chloride (HCl)				
	K – Phosphine (PH <sub>3</sub> )				



REV1205

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