



Series GA-171 Gas Alarm

The Series GA-171 Gas Alarm provides a reliable and simple solution for gas detection applications. The GA-171 Gas Alarm incorporates a simple design that can integrate a variety of gas sensor types with one or two sensors per alarm controller. The digital alarm controller is operated through a user-friendly interface consisting of four push-buttons and a two line, twenty character, alphanumeric, backlit LCD display. The digital alarm controller is housed in a NEMA 4X (IP66) enclosure. The electrochemical gas sensor(s) can be located up to 1000 feet (300 m) away from the alarm controller. The alarm module includes two selectable alarm relays.



Configuration

Sensor configuration mode is entered using a password and then adjusted using push buttons.

Operation

Simple menu driven, push-button controlled programming is performed on the alarm module. Two alarm relays are provided to activate external devices. A front panel push button function is used to acknowledge/deactivate alarms. Front Panel display and LEDs provide continuous and clear operation status.

Maintenance

Gas sensors can be replaced and/or recalibrated through the push-button menu. Sensor types can be easily changed.

Calibration

Contact Hydro Instruments for calibration gas and sensor testing devices.

Highlights

- Up to two sensors
- User-friendly key pad interface for easy operation
- Two selectable alarm relays
- Backlit liquid crystal display (LCD) for easy reading
2 line x 20 character
- Alarm LED
- Modbus RS485 RTU communication included standard
- Two 4-20mA outputs
- Password protected



Controller

Enclosure:	7"x7"x3"
Temperature Range:	32-131°F (0-55°C)
Relays:	10A SPDT (standard)
Power:	100-240 VAC 50/60Hz or 12-24 VDC 20 W max.
Analog Outputs:	Two (2): 4-20mA
Communication:	Modbus RS485 RTU Profibus optionally supported
Warranty:	1 year limited

Available Gas Sensors

Ammonia (NH ₃)	0-100 PPM
Carbon Monoxide (CO)	0-5000 PPM
Chlorine (Cl ₂)	0-10 PPM
Chlorine Dioxide (ClO ₂)	0-10 PPM
Hydrogen (H ₂)	0-5000 PPM
Hydrogen Chloride (HCl)	0-100 PPM
Hydrogen Sulfide (H ₂ S)	0-50 PPM
Nitrogen Dioxide (NO ₂)	0-20 PPM
Ozone (O ₃)	0-10 PPM
Sulfur Dioxide (SO ₂)	0-30 PPM

Sensor

Enclosure:	4"x4"x2"
Cable Type:	22 AWG shielded
Cable Length:	25 ft. standard (longer available)
Sensor Type:	Electrochemical

Note: Other sensors and ranges are available. Consult Hydro Instruments for options.

Series GA-171 Gas Alarm Ordering Information

Build No. GA-171- A B C D		
Position	Feature	Description
A. Gas Sensor No.1	1	Chlorine gas sensor
	2	Sulfur Dioxide gas sensor
	3	Ammonia gas sensor
	4	Non-standard gas sensor (Consult Hydro Instruments—Specify gas type when ordering.)
B. Gas Sensor No.2	1	Chlorine gas sensor
	2	Sulfur Dioxide gas sensor
	3	Ammonia gas sensor
	4	Non-standard gas sensor (Consult Hydro Instruments—Specify gas type when ordering.)
	5	None
C. Power	1	AC Power (100-240 VAC, 50/60 Hz)
	3	DC Power (12-24 VDC)
D. Sensor Signal Cable	1	Standard (25 ft. cable per sensor)
	2	Elongated sensor cable