

The Series GA-171 Gas Alarm system provides a reliable and simple solution for gas detection applications. The GA-171 Gas Alarm incorporates a simple modular design that can integrate a variety of gas sensor types with one or two sensors per alarm module. The digital alarm module is controlled through a user-friendly interface consisting of push-buttons and a two line, twenty character, alphanumeric, backlit LCD Display. The digital alarm module 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 module. 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 2 Sensors
- User-friendly key pad interface for easy calibration and operation
- Available for Cl₂, SO₂, NH₃, H₂S, O₃, ClO₂, H₂, O₂, NO, NO₂, HCl
- Two selectable alarm relays
- Backlit Liquid Crystal Display (LCD) for easy reading. 2 line, 20 spaces
- Built-in Normal / Alarm LEDs
- Modbus RS-485 Two-Way Communication
- Two isolated 4-20mA outputs
- Password Protection

Digital Alarm Module

NEMA 4X Enclosure:	7" x 7" x 3"
Temperature Range:	0°-55° C / 32°-131°F
Total Weight:	6 lbs
Two Relays: Common AC:	5A SPDT
Power Requirement:	100-250 VAC / 50-60 Hz
Power Consumption:	20 W max.
Analog Outputs:	Two isolated 4-20mA outputs
Digital Communication:	Modbus RS-485 Two-way
Warranty:	1 year limited

Sensor

Cable Type:	22 AWG shielded
Cable Length:	25 ft. std. (longer available)
Sensor Type:	Electrochemical

Includes shipping cap and calibration ports.

Standard Gas Sensors

Ammonia (NH ₃):	0-100 PPM
Chlorine (Cl ₂):	0-10 PPM
Chlorine Dioxide (ClO ₂):	0-10 PPM *
Ozone (O ₃):	0-10 PPM *
Sulfur Dioxide (SO ₂):	0-30 PPM
Hydrogen (H ₂):	0-200 PPM
Hydrogen Sulfide (H ₂ S):	0-100 PPM
Nitric Oxide (NO):	0-100 PPM *
Nitrogen Dioxide (NO ₂):	0-100 PPM
Oxygen (O ₂):	0-25%
Hydrogen Chloride (HCl):	0-10 PPM

Note: Other ranges are available. Consult the factory.

Series GA-171 Gas Alarm Ordering Information

Model GA-171 - A - B - C - D

Note: Add an "A" after the number for each gas type to indicate a side mounted sensor enclosure.

A. Sensor 1 Gas Type:

- 1 - Chlorine (0-10 PPM)
- 2 - Sulfur Dioxide (0-30 PPM)
- 3 - Ammonia (0-100 PPM)
- 4 - Other (consult factory)

B. Sensor 2 Gas Type:

- 1 - Chlorine (0-10 PPM)
- 2 - Sulfur Dioxide (0-30 PPM)
- 3 - Ammonia (0-100 PPM)
- 4 - Other (consult factory)
- 5 - None

C. Power Requirements:

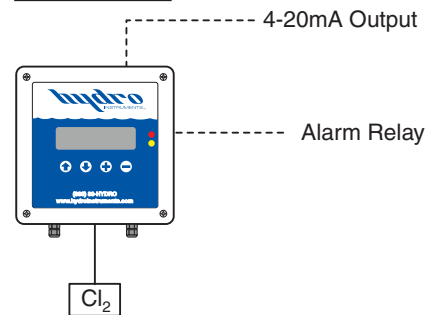
- 1 - 120 VAC, 50-60 Hz
- 2 - 240 VAC, 50-60 Hz

D. Sensor Cable Length:

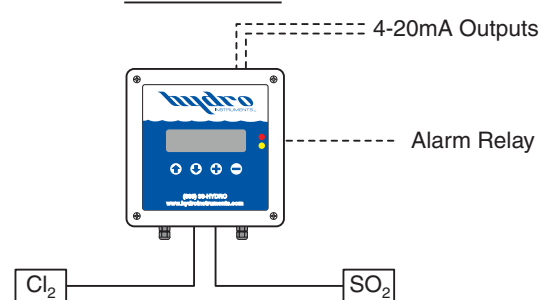
- 1 - 25 ft. (8 m) standard per sensor
- 2 - Additional length

Examples:

GA-171-1-5-1-1



GA-171-1-2-1-1



INSTRUMENTS

