



# Series GA-171 Gas Alarm

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 Cl<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, H<sub>2</sub>S, O<sub>3</sub>, ClO<sub>2</sub>, H<sub>2</sub>, NO, NO<sub>2</sub>, 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

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

## Sensor

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

Includes shipping cap and calibration ports.

## Standard Gas Sensors

Ammonia (NH <sub>3</sub> ):	0-100 PPM
Chlorine (Cl <sub>2</sub> ):	0-10 PPM
Chlorine Dioxide (ClO <sub>2</sub> ):	0-10 PPM *
Ozone (O <sub>3</sub> ):	0-10 PPM *
Sulfur Dioxide (SO <sub>2</sub> ):	0-30 PPM
Hydrogen (H <sub>2</sub> ):	0-200 PPM
Hydrogen Sulfide (H <sub>2</sub> S):	0-100 PPM
Nitric Oxide (NO):	0-100 PPM *
Nitrogen Dioxide (NO <sub>2</sub> ):	0-100 PPM
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:

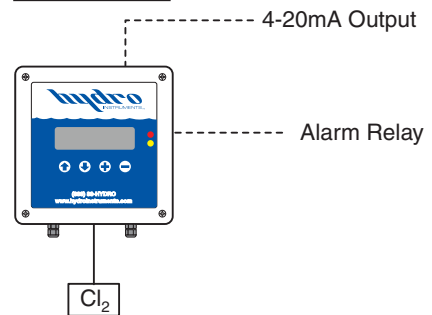
- 1 - 120 VAC, 50-60 Hz
- 2 - 240 VAC, 50-60 Hz

#### D. Sensor Cable Length:

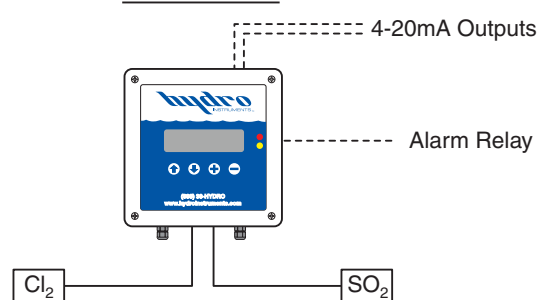
- 1 - 25 ft. (8 m) standard per sensor
- 2 - Additional length

### Examples:

#### GA-171-1-5-1-1



#### GA-171-1-2-1-1



INSTRUMENTS

