

The Series GA-170 single or dual point Gas Alarm system provides a reliable and simple solution for toxic gas detection applications. The GA-170 Gas Alarm incorporates a simple modular design that can integrate a variety of gas sensor types with up to two sensors per alarm module. The digital alarm module is controlled through a user friendly interface consisting of push-buttons and two line, sixteen character, alphanumeric backlit LCD Display. The digital alarm module is housed in a NEMA-4X enclosure, and includes visual and audible alarms. The electrochemical gas sensor(s) are housed in weatherproof enclosures, and can be located up to 1000 feet away from the alarm module. The alarm module includes two common contact relays and two adjustable alarm contact relays per sensor. All sensor contact relays are user adjustable and High Alarms can be set as latching or non latching and failsafe or non failsafe. Battery Back-Up is available as an option.

### HIGHLIGHTS:

- **Single or Dual Sensor**
- **User friendly key pad interface for easy calibration and operation**
- **Available for Chlorine, Sulfur Dioxide and other Gases**
- **6 contact Relays available**
- **Backlit Liquid Crystal Display (LCD) for easy reading. 2 line, 16 spaces**
- **Built- In 90 dB audible Alarm and danger/warning LED's**
- **Optional 24 hour Battery Back- Up**
- **RS232 Output Option**
- **4-20 mA Output Option**
- **Remote Acknowledge Option**

### Configuration:

Sensor configuration mode is entered through internal dip switches and then adjusted using push buttons. Latching and Failsafe alarm options are set by internal dip switches.

### Operation:

Simple menu driven, push-button controlled programming is performed on the alarm module. Six alarm outputs are provided to activate external devices. A front panel push button function is used to acknowledge / deactivate latching alarms. An optional contact input can be provided for remote acknowledge of latching Alarms. Front Panel display and LED's 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 through software.

Gas sensors have a typical life of 18 to 24 months.



## DIGITAL ALARM MODULE:

NEMA 4X Enclosure ——— 8" x 6" x 4"

Temperature Range ——— 0 - 50° C

Total Weight ——— 7 lbs

Weight with Battery ——— 9 lbs

Relays:

Common AC Power Loss — 5A SPDT

Common Sensor Failure — 5A SPDT

Each Channel ↪

( Danger ) - Low Alarm — A SPDT

( Alarm ) - High Alarm — A DPDT

Audible Alarm 90dB

Power Requirement 120 V/240 V, 50/60 Hz

Power Consumption 20 W max.,

Battery Back-Up (optional) 24 hours, 2.9 A·Hr,  
12 VDC gel Cell

External Acknowledge Input Contact

Signal Output (optional) RS232, 4 - 20 mA

Warranty 1 year limited

## STANDARD GASES:

Chlorine: 0 - 10 PPM(std.)\*

Sulfur Dioxide: 0 - 30 PPM(std.)\*

\* For other ranges and other chemicals consult the factory. A variety of ranges and gases is available.

## SENSOR:

Cable Type: 22 AWG shielded

Cable Length : 25 ft. std.

Sensor Type: Electrochemical

Sensor Lifetime: (approx.)18 - 24 months

## SERIES GA-170 GAS ALARM ORDERING INFORMATION

Model GA-170-1 Single Sensor

Model GA-170-2 Dual Sensor

**Model GA -170 -1- A - B - C - D- E - F**

**Model GA -170 -2- A - B - C - D - E - F - G**

**A - Gas Type:**

- 1 - Chlorine
- 2 - Sulfur Dioxide
- 3 - Other, consult factory

**A & B - Gas Type:**

- 1 - Chlorine
- 2 - Sulfur Dioxide
- 3 - Other, consult factory

**B - Power:**

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

**C - Power:**

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

**C - Battery Back-Up:**

- 1 - Not Included
- 2 - Included

**D - Battery Back-Up:**

- 1 - Not Included
- 2 - Included

**D - Sensor Cable Length:**

- 1 - 25 ft. ( 8 meter ) std.
- 2 - additional length, consult factory

**E - Sensor Cable Length:**

- 1 - 50 ft. ( 16 meter ) std.
- 2 - additional length, consult factory

**E - Output:**

- 1 - None
- 2 - RS - 232
- 3 - 4 - 20 mA

**F - Output:**

- 1 - None
- 2 - RS - 232
- 3 - 4 - 20mA

**F - External Acknowledge:**

- 1 - None
- 2 - Included

**G - External Acknowledge:**

- 1 - None
- 2 - Included

