

# Series GA-180 Gas Alarm



The Series GA-180 Gas Alarm system provides a reliable solution for gas detection applications.

The GA-180 Gas Alarm incorporates a modular design that can integrate a variety of gas sensor types—up to 16 in total, in any combination.

The digital alarm controller is configured through a user-friendly four push button interface and a two line x twenty character, alpha-numeric, backlit LCD display. The digital alarm controller is housed in a NEMA4X enclosure and includes visual and audible alarms.

The electrochemical gas sensor(s) can be located up 1000 ft. (300m) away from the alarm controller.

## Features

- Password protected configuration
- Integral 90dB horn
- Common alarm relays
- Individual sensor alarm relays (user adjustable, latching & non-latching, failsafe & non-failsafe)
- Battery backup
- Temperature monitoring available Isolated 4-20mA outputs
- MODBUS communication
- Modular circuitry

## Operation

Simple menu driven, push-button controlled setup is performed through the controller. Alarm outputs are provided to activate external devices.

A front panel push-button function is used to acknowledge/deactivate alarms as well as having a contact input for remote acknowledgement.

Controller display and LED's provide real-time and clear operation status.

## Maintenance

Gas sensors can easily be replaced and/or recalibrated through the controller.



## Controller

Enclosure	11"x9"x5"
Temperature Range	32-131°F (0-55°C)
Relays	10A SPDT
Audible Horn	90dB
Power	120-240VAC 50/60Hz
Battery Backup	12 hours, 2.9AHr, 12VDC gel cell
Sensor Outputs	4-20mA (isolated)
Communication	MODBUS
Remote Acknowledge	Input contact
Warranty	1 year limited

## Sensor

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

## Available 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
Hydrogen (H <sub>2</sub> )	0-200 PPM
Hydrogen Chloride (HCl)	0-10 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
Ozone (O <sub>3</sub> )	0-10 PPM
Sulphur Dioxide (SO <sub>2</sub> )	0-30 PPM

## GA-180 Ordering Information

MODEL: GA-180-A-B-C-D-E-F-G-H

Position	Feature	Description
A. Chlorine Gas Sensors	#	No. of Chlorine Gas (Cl <sub>2</sub> ) sensors, 0-10 PPM (# = 0 to 16)
B. Sulfur Dioxide Sensors	#	No. of Sulfur Dioxide Gas (SO <sub>2</sub> ) sensors, 0-30 PPM (# = 0 to 16)
C. Ammonia Sensors	#	No. of Ammonia Gas (NH <sub>3</sub> ) sensors, 0-100 PPM (# = 0 to 16)
D. Other	#	No. of non-standard sensors (# = 0 to 16) (Consult Hydro Instruments - Specify type when ordering)
E. Sensor Cable	1	Standard - 25 ft. per sensor
	2	Elongated sensor cable(s) (Specify cable length for each sensor when ordering)
F. Battery Backup	1	Not included
	2	Installed
G. Output Wiring	1	Not included
	2	Pre-wired 4-20mA output(s) (Specify cable length for each output when ordering)
H. Thermocouple	1	Not included
	2	Installed

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