

# 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, alphanumeric, 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 available
- 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. For calibration procedures please refer the GA-180 O&M manual. Gas sensors do NOT require the addition of or replacement of electrolyte.







#### Controller

Enclosure 11"x9"x5"

**Temperature Range** -4-131°F (-20-55°C)

**Relays** 10A SPDT

Audible Horn 90dB

**Power** 120-240VAC 50/60Hz **Battery Backup** (optional) 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 Type22 AWG shieldedCable Length25 ft. standard (longer

available)

Sensor Type Electrochemical

#### **Available Gas Sensors**

Ammonia (NH₃)	0-100 PPM
Carbon Monoxide (CO)	0-5000 PPM
Chlorine (Cl <sub>2</sub> )	0-10 PPM
Chlorine Dioxide (ClO <sub>2</sub> )	0-10 PPM
Hydrogen (H <sub>2</sub> )	0-5000 PPM
Hydrogen Chloride (HCI)	0-100 PPM
Hydrogen Sulfide (H <sub>2</sub> S)	0-200 PPM
Nitrogen Dioxide (NO <sub>2</sub> )	0-20 PPM
Ozone (O <sub>3</sub> )	0-10 PPM
Sulfur Dioxide (SO <sub>2</sub> )	0-30 PPM

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

# **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 2	1	Not included
	2	Installed—10 ft. cable
	3	Installed w/ Elongated thermocouple cable (Specify cable length when ordering)



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