

# 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**

- Up to 16 sensors in any combination
- Individual sensor alarm relays (user adjustable, latching & non-latching, failsafe & non-failsafe)
- Multiple common alarm relays
- Scanning display of all sensor readings
- Isolated 4-20mA outputs for sensors
- Password protected configuration
- Modbus (RS485) communication
- Internal data logging available
- Modular circuitry
- Integral 95 dB horn
- Battery backup available
- Temperature monitoring available (rising & falling alarms)



# **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"

-4-131°F (-20-55°C) **Temperature Range:** Relays: 10A SPDT (standard)

**Audible Horn:** 90dB

120-240VAC 50/60Hz Power: (universal):

or 24 VDC

12 hours, 2.9AHr,12VDC **Battery Backup:** (optional)

gel cell

Sensor Outputs: 4-20mA (isolated) Communication: Modbus (RS485)

Profibus optionally supported

MicroSDHC (internal) **Data Logging** (optional):

Remote Acknowledge: Input contact Warranty: 1 year limited

#### **Available Gas Sensors**

0-100 PPM
0-5000 PPM
0-10 PPM
0-10 PPM
0-5000 PPM
0-100 PPM
0-50 PPM
0-20 PPM
0-2 PPM
0-10 PPM
0-30 PPM

Note: Other sensors and ranges are available.

Consult Hydro Instruments for options.

#### Sensor

**Enclosure:** 4"x4"x2"

Cable Type: 22 AWG shielded Cable Length: 25 ft. standard (longer

available)

**Sensor Type:** Electrochemical

## **GA-180 Ordering Information**

### Model: GA-180—A—B—C—D—E—F—G—H—I

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 Gas Sensors	#	No. of Sulfur Dioxide Gas (SO <sub>2</sub> ) sensors, 0-30 PPM (# = 0 to 16)
C. Ammonia Gas 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 for pricing—Specify type when ordering)
E. Sensor Cable	1	Standard—25 ft. cable 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—Standard 10 ft. cable
	3	Installed—Elongated thermocouple cable (Specify cable length when ordering)
I. Data Logger	1	Not Included
	2	Installed



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