ProMinent Fluid Controls Pty Ltd

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 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.

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Distributors Throughout Australia & New Zealand

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 (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 Type	22 AWG shielded
Cable Length	25 ft. standard (longer available)
Sensor Type	Electrochemical

Available Gas Sensors

Ammonia (NH_3)	0-100 PPM
Chlorine (Cl_2)	0-10 PPM
Chlorine Dioxide (ClO_2)	0-10 PPM
Hydrogen (H_2)	0-200 PPM
Hydrogen Chloride (HCl)	0-10 PPM
Hydrogen Sulfide (H_2S)	0-100 PPM
Nitric Oxide (NO)	0-100 PPM
Nitrogen Dioxide (NO_2)	0-100 PPM
Ozone (O_3)	0-10 PPM
Sulfur Dioxide (SO_2)	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_2) sensors, 0-10 PPM (# = 0 to 16)
B. Sulfur Dioxide Sensors	#	No. of Sulfur Dioxide Gas (SO_2) sensors, 0-30 PPM (# = 0 to 16)
C. Ammonia Sensors	#	No. of Ammonia Gas (NH_3) 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