PointGard II

The PointGard® II is a microprocessor based stand-alone gas detector for the continuous monitoring of toxic gases and Oxygen in ambient air. The PointGard II is designed to be a stand-alone instrument that is easy to use. The instrument is housed in a rugged NEMA 4X plastic enclosure, has an easy-to-read LED display, plus audible and visual alarm indicators. The instrument is furnished with a 3-prong line cord, which can be plugged into a standard wall outlet.

PointGard II:
Single Point Area Monitor
for toxic gases in ambient air.

Simple, quick installation
The instrument is easily mounted on a wall or structure. After installing the sensor, and plugging the line cord into a 110 VAC outlet, PointGard II is ready for operation. Sensors are pre-calibrated before shipment, so calibration is not necessary at start-up. The simple menu guided user interface is accessed through 3 buttons on the front panel of the instrument.

Proven DraegerSensor technology
The heart of the PointGard II is the electrochemical DraegerSensor®, the latest development in gas sensing technology. The DraegerSensor is designed for accuracy, stability, and long life. Temperature compensation of the sensor signal has been optimized and cross sensitivity to other gases minimized, ensuring an accurate reading of the target gas concentration.

Complete system
The gas concentration is displayed on a bright LED display. In an alarm condition the horn and the strobes are activated. The measuring ranges can be selected within a number of set points.

PointGard II has an industry standard 4 to 20 mA output, so the current gas concentration can be transmitted to a central control system. The three on-board relays allow for the connection of additional alarm devices in a remote area. The alarm set points can be programmed to any value, and the relays can be programmed as latching/non-, acknowledgeable/non- and rising/falling.

Gas	Range
Ammonia NH_3 LC	0 to 50/100 ppm
Ammonia NH_3 HC	0 to 300/500 ppm
Carbon Monoxide CO	0 to 50/100/ 200/300/500 ppm
Chlorine Cl_2	0 to 5/10/20/50 ppm
Ethylene Oxide EO	0 to 20/50/100 ppm
Hydrogen H_2	0 to 500 ppm
Hydrogen Sulfide H_2S LC	0 to 10/20/ 50/100 ppm
Hydrogen Sulfide H_2S HC	0 to 500 ppm
Hydrogen Peroxide H_2O_2	0 to 5/10/20/50 ppm
Nitrogen Dioxide NO_2	0 to 5/10/20/50 ppm
Oxygen O_2	0 to 5/10/25 Vol%
Sulfur Dioxide SO_2	0 to 5/10/20/50 ppm

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TECHNICAL DATA

Type	General purpose gas monitor (not to be used in hazardous, classified areas)	
Gases and Ranges	Toxic gases and Oxygen, range user configurable	
Display	3 digit LED display, resolution varies with the range	
Output Signal	Measurement	4 to 20 mA
	Maintenance	4 ± 1 mA 1 Hz modulation, or steady 3 mA; user selectable
	Fault	< 2 mA
Alarms	Two gas concentration alarms (A1 and A2, rising or falling), user-configurable	
Relays	Two alarm relays, one fault relay; normally energized, SPDT, user-configurable for latching/non-, acknowledge/non- and rising/falling.	
	Rating	5A 230 VAC, 5 A 30 VDC
Horn	Volume adjustable from 75 to 100 dB @ 1 ft.	
Supply Voltage	110 VAC or 24 VDC; power cord included	
Ambient conditions	Temperature	+14 to + 122 °F / -10 to + 50 °C
	Pressure	20.7 to 38.4 inch of Hg / 700 to 1300 mbar
	Humidity	5 to 95 %RH (see sensor data sheet)
Enclosure	NEMA 4X, IP 65; lockable by pad lock	
Size (h x w x d approx.)	13.5" x 9" x 5.25", 345 x 230 x 135 mm	
Weight (approx.)	6.9 lbs., 3.1 kg	

ORDER INFORMATION

PointGard II	45 43 310
PointGard II with 20 ft sensor extender cable	45 43 475
PointGard II with 50 ft sensor extender cable	45 43 477
PointGard II with 100 ft sensor extender cable	45 43 479
Order sensor separately:	
DraegerSensor Ammonia NH_3 LC	68 09 680
DraegerSensor Ammonia NH_3 HC	68 09 645
DraegerSensor Carbon Monoxide CO	68 09 605
DraegerSensor Chlorine Cl_2	68 09 665
DraegerSensor Ethylene Oxide EO	68 10 740
DraegerSensor Hydrogen H_2	68 09 685
DraegerSensor Hydrogen Sulfide H_2S LC	68 09 610
DraegerSensor Hydrogen Sulfide H_2S HC	68 09 710
DraegerSensor Hydrogen Peroxide H_2O_2 LC	68 09 705
DraegerSensor Nitrogen Dioxide NO_2	68 09 655
DraegerSensor Oxygen O_2 LS	68 09 630
DraegerSensor Sulfur Dioxide SO_2	68 09 660