

PointGard II



ST-1389-2006

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.



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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 | 0 to 10/20/ H ₂ S LC 50/100 ppm |
| Hydrogen Sulfide | 0 to 500 ppm |
| H ₂ S HC | |
| Hydrogen Peroxide | 0 to 5/10/20/50 ppm |
| H ₂ O ₂ | |
| 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 |

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

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|--|-----------|
| 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 ₂ S LC | 68 09 610 |
| DraegerSensor Hydrogen Sulfide H ₂ S HC | 68 09 710 |
| DraegerSensor Hydrogen Peroxide H ₂ O 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 |

| subject to modification!

| PI 066 | CR-PR | Printed in USA | chlorine free - ecological



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