Dräger PointGard 2100
Detection of toxic gases and vapours

The Dräger PointGard 2100 series is a self-contained gas detection system for the continuous area monitoring of toxic gases in ambient air. PointGard 2100’s rugged, water-resistant housing comes complete with a horn and strobes, a built-in power supply, and reliable DrägerSensor®.
Benefits

**Ready to use out of the box**

PointGard 2000 is a self-contained gas detection alarm system that is easy to install and commission. Just mount it on a wall and hard wire it to an AC/DC power or plug in the optional AC power cord. Since the strobes and horn are built in, there is no need to specify and purchase separate alarm output devices. The pre-calibrated sensor is ready to use.

**Detect over 100 toxic gases using DrägerSensors**

Electrochemical DrägerSensors provide continuous detection even under the harshest conditions. Most DrägerSensors offer a very wide temperature range from -40 °C to +65 °C (-40 °F to +149 °F). The built-in memory contains all the information relating to calibration and configuration. The sensor is pre-calibrated and ready for immediate operation. An intelligent sensor self-test function allows for predictive maintenance.

**Flexible communications**

PointGard can accommodate additional external alarm devices through its three built-in relays. In addition, a 4–20 mA signal output allows integration into a larger gas detection system.

**Rugged and compact housing**

PointGard’s glass fiber reinforced polyester housing is water and dust resistant with a 4X/IP66 rating. Its compact size allows it easily to fit most applications. Built-in cable glands make it easy to install.

**Advanced display with diagnostics**

The large, illuminated backlit graphic display shows status information clearly and in a format that's easy to use. The measured gas concentration, selected gas type, and measuring unit are displayed during normal operation. Coloured LEDs (green, yellow, and red) provide additional alarm and status information. Advanced diagnostics log events and gas readings, which can be displayed and a graph created on the display.

**Monitor remote areas up to 30 meters away**

A remote sensor enclosure with a cable up to 30 metres long, designed for use in ordinary locations, is available for electrochemical sensors.
Accessories

Remote housing for EC toxic gas sensor

The remote housing for the EC sensor head is compatible with the PointGard 2100. It can be ordered with a 5-, 15-, or 30-metre-long cable with plug and includes a bracket wall mount. The housing for the remote sensor is not suitable for use in classified environments containing flammable, combustible or explosive agents.

Related Products

Dräger PointGard 2200

The Dräger PointGard 2200 series is a self-contained gas detection system for the continuous area monitoring of flammable gases and vapours in ambient air. PointGard 2200’s rugged, water-resistant housing comes complete with a horn and strobes, a built-in power supply, and reliable DrägerSensor®.
# Technical Data

<table>
<thead>
<tr>
<th>Dräger PointGard 2100 EC</th>
<th>Toxic gases and oxygen in ambient air</th>
</tr>
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<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Self-contained gas monitor with alarm devices for general-purpose applications</td>
</tr>
<tr>
<td><strong>Measuring ranges</strong></td>
<td>Electrochemical (EC) sensor Customized depending on sensor</td>
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</table>

## Display and controls
- **Display**: 75 mm/3” backlit graphic LC display
- **Indicators**: 3 status LEDs (green/yellow/red)
- **Operation**: Through three front mounted push buttons
- **Security**: Separate passwords for maintenance and configuration menu
- **Functions**: Event and data logger with a capacity of up to 35,000 records
  - Warning and error messages displayed in plain text
  - Passwordless bump-test mode inhibits alarms
  - Automatic calibration mode for zero and span

## Electrical data
- **Signal output analog**
  - **Maintenance**: Constant 3.4 mA or 4 mA ±1 mA 1 Hz modulation (adjustable)
  - **Fault**: <1.2 mA
- **Power supply AC version**
  - **Operating voltage**: 100–240 VAC 50–60 Hz
  - **Nominal power**: 6 W
  - **Operating current (max)**: 0.5 A
  - **Inrush current**: Max. 40 A at 230 VAC 50 Hz
- **Power supply DC version**
  - **Operating voltage**: 8–30 VDC
  - **Nominal power**: 6 W
  - **Operating current (max)**: 2.5 A

## Electrical certification
- **CE rating, IEC/EN 61010-1**
- **Complies with UL 61010-1**
- **Class B device, residential use compliant with ICES-3(B)/NMB-3(B)**

## Relay specification
- **2 alarm relays and 1 fault relay**
- **SPDT contact 5 A @ 230 VAC, 5 A @ 30 VDC**, resistance bound
- **Alarm reset through front-mounted push button**

## Alarm devices
- **Amber and red LED strobes to indicate A1 and A2 with different blink patterns**
- **Green status LED and red strobe to indicate fault/alarm and A1/ A2**
- **85-105 dB adjustable-volume buzzer with continuous and pulsating tone**

## Environmental conditions
- **Temperature (storage)**: -20 to +65 °C/-4 to +149 °F
- **Temperature (operation)**: -20 to +50 °C/-4 to +122 °F
- **Humidity**: 0 to 95% r. h., noncondensing
- **Pressure**: 20.7 to 38.4 Hg/700 to 1,300 hPa

## Housing
- **Material**: Glass fiber reinforced polyester (GFRP)
- **Mounting**: Wall mount with internal screws or optional SS mounting brackets
- **Housing protection type**: NEMA 4X, IP66 (pending); indoor or outdoor use
- **Housing certification**: UL 508A/50/50E; CSA C22.2 94.1/94.2/14–13
- **Cable entry point**: 3 cable glands, M20
- **Size (L x W x D)**: 255 x 280 x 120 mm/10 x 11 x 4.7"
- **Weight**: 2.5 kg/5.5 lb
## Ordering Information

<table>
<thead>
<tr>
<th>Dräger PointGard 2100 EC (Order EC Sensor Separately)</th>
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<tbody>
<tr>
<td>Dräger PointGard 2100 EC AC Power</td>
<td>83 26 420</td>
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<tr>
<td>Dräger PointGard 2100 EC AC Power w/ green steady light</td>
<td>83 26 426</td>
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<tr>
<td>Dräger PointGard 2100 EC DC Power</td>
<td>83 26 423</td>
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<tr>
<th>Dräger PointGard 2100 EC Accessories</th>
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<td>EC Sensing Head Remote Enclosure w/ mount (requires cable)</td>
<td>68 12 684</td>
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<tr>
<td>Remote Cable + Plug (5 m/16’)</td>
<td>83 23 305</td>
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<tr>
<td>Remote Cable + Plug (15 m/49’)</td>
<td>83 23 315</td>
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<tr>
<td>Remote Cable + Plug (30 m/100’)</td>
<td>83 23 330</td>
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<tr>
<td>Sensor Diagnostics Dongle</td>
<td>83 17 860</td>
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<td>Sensor Test Dongle</td>
<td>83 17 619</td>
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<th>Dräger PointGard 2000 Series Common Accessories</th>
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<tr>
<td>Mounting Bracket Set (not included in Dräger PointGard)</td>
<td>83 26 497</td>
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<tr>
<td>Splash Guard</td>
<td>68 12 510</td>
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<tr>
<td>Calibration Adapter Viton</td>
<td>68 10 536</td>
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<tr>
<td>IR Connection Kit for PC configuration and upgrades</td>
<td>45 44 197</td>
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<tr>
<td>LED Steady Beacon, green</td>
<td>83 26 419</td>
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<tr>
<td>AC Power Cable Brazil</td>
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<tr>
<td>AC Power Cable Europe</td>
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<td>AC Power Cable USA</td>
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<tr>
<td>AC Power Cable Australia</td>
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