

## Dräger PointGard 2700 Detector for flammable gases and vapours

The Dräger PointGard 2700 is a self-contained gas detection system for the continuous area monitoring of flammable hydrocarbon gases and vapors in ambient air. PointGard 2700's rugged, water-resistant housing comes complete with a horn and strobes, a built-in power supply, and external relays. It is compatible with a remotely mounted Dräger PIR 7000 Type 334 or Type 340 infrared gas sensor.



## Benefits

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### Uses the high performance Dräger PIR 7000 infrared sensor

With its stainless steel 316L enclosure and drift free optics, the Dräger PIR 7000 is designed for the harshest industrial environments such as offshore installations. The unique 4 beam signal stabilizing system makes the sensor resistant to dust or dirt deposits on the optical surfaces. Environmental and ageing effects are largely compensated ensuring long term, drift free operation. The integrated gas library with more than 70 gases provides a high degree of application flexibility. Each of the gases listed there can be picked from the menu and automatically cross-calibrated with a standard calibration gas such as methane or propane.

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### Waterproof stainless steel IR sensor

Thanks to its innovative splash guard and waterproof enclosure, the PIR 7000 sensor is ready for extreme conditions such as areas with daily high-pressure wash-downs and extreme temperature and humidity levels. It is available with an integrated Ex e junction box or an aluminum or 316L stainless steel junction box.

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### Flexible communications

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

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### 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 to easily fit most applications. Built-in cable glands make it easy to install.

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### Advanced display with diagnostics

The large, illuminated backlit graphic display shows status information clearly and in a format that's easy to interpret. 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.

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### Monitor remote areas up to 30 meters away

The Dräger PIR 7000 sensor is designed to be installed in Zone 1 classified hazardous areas remotely from the PointGard 2700 with a four-conductor shielded cable up to 30 meters long. The cable and Dräger PIR 7000 sensor must be ordered separately from the PointGard 2700.

## Accessories

ST-11685-2007



### Remote sensor Dräger PIR 7000 (M25) complete set

The Dräger PIR 7000 can be placed up to 30 meters away from the PointGard 2700. The type of protection Ex e allows operation in hazardous areas (see approvals). Please note that the shielded four-wire cable is not included.

D-0985-2020



### Remote sensor Dräger PIR 7000 (NPT) complete set

The Dräger PIR 7000 can be placed up to 30 meters away from the PointGard 2700. The Ex d type of protection allows operation in hazardous areas (see approvals). Please note that the shielded four-wire cable is not included.

## Related Products

D-11951-2016



### Dräger PointGard 2200

The Dräger PointGard 2200 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®.

## Technische Daten

|  |   |  |  |  |
|--|---|--|--|--|
| Dräger PointGard 2700 IR                                     |   | Hydrocarbons in ambient air  |  |  |
| Type   | Self-contained gas monitor with alarm devices for general-purpose applications  |  |  |  |
| Gases and measuring ranges                                   | Methane, propane, ethylene  | 0 – 20...100 % LEL   |  |  |
|  | Methan  | 0 – 100 Vol.-%   |  |  |
| Other substances and measuring ranges on request             |   |  |  |  |
| Display and controls   | Display   | Graphic LC-Display 75 mm/3 inch<br>Red or green backlight selectable, alphanumeric   |  |  |
|  | Indicator   | 3 status LEDs (green/yellow/red), 85 dB – 100 dB adj. piezo horn   |  |  |
|  | 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<br>Warning and error messages displayed in plain text<br>Passwordless bump-test mode inhibits alarms<br>Automatic calibration mode for zero and span |  |  |
| Electrical data  | Signal output analog  | Normal operation   | 4–20 mA  |  |
|  |   | 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 V, 50/60 Hz  |  |
|  |   | Nominal power  | 12 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 V   |  |
|  |   | Nominal power  | 12 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<br>SPDT contact 5 A @ 230 VAC, 5 A @ 30 VDC, resistance bound<br>Alarm reset through front-mounted push button  |  |  |
| Alarm devices  | Variants with amber and red LED strobes activate on 2 alarm levels independently  |  |  |  |
|  | Variants with green steady light activate red strobe on 1 common alarm level. Green steady light turns off during alarm or fault condition; optional blue LED strobe<br>85–105 dB adjustable-volume buzzer with continuous and pulsating tone |  |  |  |
| Environmental conditions<br>(see Dräger PIR 7000 data sheet) | 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   | 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  | 2,3 kg w/o sensor  |  |  |

## Ordering Information

### Dräger PointGard 2700 IR (Order Dräger PIR 7000 sensor separately)

|  |           |
|--|-----------|
| Dräger PointGard 2700/2720 IR AC Remote                | 37 06 858 |
| Dräger PointGard 2700/2720 IR DC Remote                | 37 06 859 |
| Dräger PointGard 2700/2720 IR AC Remote w/ green light | 37 06 860 |

### Dräger PointGard 2700 IR compatible Sensors

|  |           |
|--|-----------|
| Dräger PIR 7000 Type 334 (NPT) HART®, complete Set (Stainless Steel) | 68 13 035 |
| Dräger PIR 7000 Type 334 (M25) HART®, complete Set (Stainless Steel) | 68 11 817 |
| Dräger PIR 7000 Type 340 (NPT) HART®, complete Set (Stainless Steel) | 68 13 045 |
| Dräger PIR 7000 Type 340 (M25) HART®, complete Set (Stainless Steel) | 68 11 819 |
| Dräger PIR 7000 Type 334 (NPT) HART®, complete Set (Aluminum)        | 68 13 030 |
| Dräger PIR 7000 Type 340 (NPT) HART®, complete Set (Aluminum)        | 68 13 040 |

The complete set includes the Ex d or e junction box, the splash guard, the status indicator and the mounting set, already preassembled.

### Dräger PointGard 2000 Series Common Accessories

|   |           |
|---|-----------|
| Mounting Bracket Set (not included in Dräger PointGard) | 83 26 497 |
| IR Connection Kit for PC configuration and upgrades     | 45 44 197 |
| LED steady light, green                                 | 83 26 489 |
| LED strobe light, blue                                  | 83 26 472 |
| AC Power Cable Brazil                                   | 83 26 448 |
| AC Power Cable Europe                                   | 83 26 449 |
| AC Power Cable UK                                       | 83 26 450 |
| AC Power Cable USA                                      | 83 26 451 |
| AC Power Cable Australia                                | 83 26 452 |

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## Notes

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