

## Dräger PointGard 2700 Detection of flammable gases and vapors

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 built 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 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 use. The measured gas concentration, selected gas type, and measuring unit are displayed during normal operation. Colored 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 (98 feet) 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 (98 feet) long. The cable and Dräger PIR 7000 sensor must be ordered separately from the PointGard 2700.

## Accessories



D-0985-2020

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

The Dräger PIR 7000 can be placed up to 30 meters (98 feet) 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-7353-2016

### Dräger PointGard 2100

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®.



D-11949-2016

### Dräger PointGard 2200

The Dräger PointGard 2200 series is a self-contained gas detection system for the continuous area monitoring of flammable gases and vapors 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

Dräger PointGard 2700 IR		Hydrocarbons in the 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		
	Methane	0 – 100 Vol.- %		
	Other substances and measuring ranges on request			
Display and controls	LCD display	Graphic LC-Display 75 mm/3 inch with backlight		
		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		
		Warning and error messages displayed in plain text		
Passwordless bump-test mode inhibits alarms				
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 VAC 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 VDC	
		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 SPDT contact 5 A @ 230 VAC, 5 A @ 30 VDC, resistance bound 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  85-105 dB adjustable-volume buzzer with continuous and pulsating tone		
Environmental conditions (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, 1/2" NPT		

## Technical Data

Size (L x W x D)	10 x 11 x 4.7" (255 x 280 x 120 mm)
Weight	5 lbs (2.3 kg)

## 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 340 (NPT) HART®, complete Set (Stainless Steel)	68 13 045
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 junction box, the splash guard, and the status indicator, already pre-assembled.

### 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 status light green w/ interface cable	83 26 489
LED strobe light, blue	83 26 472
AC Power Cable USA	83 26 451

HART® is a registered trademark of the HART Communication Foundation.

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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

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