

Dräger PointGard 2720 Detection of carbon dioxide

The Dräger PointGard 2720 is a self-contained gas detection system for the continuous area monitoring of carbon dioxide (CO₂) in ambient air. PointGard 2720's rugged, water-resistant housing comes complete with a horn and strobes, a built-in power supply, and is compatible with a remotely mounted Dräger PIR 7200 infrared CO₂ sensor.



Benefits

Uses the Dräger PIR 7200 high performance infrared CO₂ sensor

With its stainless steel 316L enclosure and drift free optics, the Dräger PIR 7200 is built for harsh industrial and commercial outdoor environments. 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 measuring range can be freely adjusted between 0 – 2,000 ppm and 0 – 30% volume enabling a wide variety of applications.

Waterproof stainless steel IR sensor

Thanks to its innovative splash guard and waterproof enclosure, the PIR 7200 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 aluminum or 316L stainless steel junction box.

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.

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.

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. 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.

Monitor remote areas up to 30 meters (98 feet) away

The Dräger PIR 7200 sensor is designed to be installed in Zone 1 classified hazardous areas remotely from the PointGard 2720 with a four-conductor shielded cable up to 30 meters (98 feet) long. The cable and Dräger PIR 7200 sensor must be ordered separately from the PointGard 2720.

Accessories



D-1049-2020

Remote sensor Dräger PIR 7200 (NPT) complete set

The Dräger PIR 7200 can be placed up to 30 meters (98 feet) away from the PointGard 2720. 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 2720 IR		Carbon dioxide (CO ₂) in the ambient air		
Type		Self-contained gas monitor with alarm devices for general-purpose applications		
Measuring range		0-2000 ppm; 0-30 Vol.-%		
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				
	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 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 7200 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		
	Size (L x W x D)	255 x 280 x 120 mm/ 10 x 11 x 4.7"		
	Weight	2.3 kg --> 5 lbs		

Ordering Information

Dräger PointGard 2720 IR (Order Dräger PIR 7200 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 2720 IR compatible Sensors

Dräger PIR 7200 (NPT) HART®, complete Set (Stainless Steel)	68 13 055
Dräger PIR 7200 (NPT) HART®, complete Set (Aluminum)	68 13 050

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.

Notes

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