Dräger PointGard 2100
Detector for toxic gases and oxygen

The Dräger PointGard 2100 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®.

LED strobes

Horn

Backlit graphic LCD

Water-resistant enclosure

Status LEDs

D-7350-2016

Dräger. Technology for Life®

Benefits

Ready to use out of the box

PointGard 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

D-0188-2020

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

D-1951-2016

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®.

Technical Data

Dräger PointGard 2100 EC		Toxic gases and oxygen in ambient air	
Type		Self-contained gas monitor with alarm devices for general-purpose applications	
Measuring ranges		Electrochemical (EC) sensor	Customized depending on sensor

Display and controls	LCD display	75 mm/3" backlit graphic LC display	
		Selectable red or green illumination, alphanumeric	
	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	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	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	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 sensor 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; 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

Dräger PointGard 2100 EC (Order EC Sensor Separately)

Dräger PointGard 2100 EC AC Power	83 26 420
Dräger PointGard 2100 EC AC Power w/ green steady light	83 26 426
Dräger PointGard 2100 EC DC Power	83 26 423

Dräger PointGard 2100 EC Accessories

EC Sensing Head Remote Enclosure w/ mount (requires cable)	68 12 684
Remote Cable + Plug (5 m/16')	83 23 305
Remote Cable + Plug (15 m/49')	83 23 315
Remote Cable + Plug (30 m/100')	83 23 330
Sensor Diagnostics Dongle	83 17 860
Sensor Test Dongle	83 17 619

Electrochemical DrägerSensors

DrägerSensor® AC	68 10 595
DrägerSensor® Cl_2	68 09 665
DrägerSensor® $COCl_2$	68 09 930
DrägerSensor® CO	68 09 605
DrägerSensor® CO LS	68 09 620
DrägerSensor® CO LH	68 12 570
DrägerSensor® H_2	68 09 685
DrägerSensor® H_2O_2 HC	68 09 675
DrägerSensor® H_2O_2 LC	68 09 705
DrägerSensor® H_2S LC	68 09 610
DrägerSensor® H_2S HC	68 09 710
DrägerSensor® H_2S	68 10 435
DrägerSensor® HCl	68 09 640
DrägerSensor® HCN	68 09 650
DrägerSensor® HCN LC	68 13 200
DrägerSensor® Hydrides	68 09 635
DrägerSensor® Hydrides SC	68 09 980
DrägerSensor® PH_3/AsH_3	68 09 695
DrägerSensor® Hydrazine	68 10 180
DrägerSensor® NH_3 LC	68 09 680
DrägerSensor® NH_3 HC	68 09 645
DrägerSensor® NH_3 TL	68 13 095
DrägerSensor® NH_3 FL	68 13 260
DrägerSensor® NO LC	68 09 625
DrägerSensor® NO_2	68 09 655
DrägerSensor® NO_2 LC	68 13 205
DrägerSensor® O_3	68 14 005
DrägerSensor® O_2 LS	68 09 630
DrägerSensor® OV1	68 10 740
DrägerSensor® OV2	68 10 745
DrägerSensor® SO_2	68 09 660

Dräger PointGard 2000 Series Common Accessories

Mounting Bracket Set (not included in Dräger PointGard)	83 26 497
Splash Guard	68 12 510
Calibration Adapter Viton®	68 10 536
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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