Dräger PointGard® 2000 Series
Detection of Toxic and Flammable Gases

The Dräger PointGard® 2000 series is a self-contained gas detection system for the continuous area monitoring of toxic or flammable gases in ambient air. PointGard® 2000's rugged, water-resistant enclosure comes complete with a horn and strobes, a built-in power supply, and reliable DrägerSensor®.

D-7350-2016

LED strobes

Horn

Backlit graphic LCD

Water-resistant enclosure

Status LEDs

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 hardwire 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 precalibrated sensor is ready to use.

Dräger PointGard 2100: Detect over 100 toxic gases using DrägerSensors

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

Dräger PointGard 2200: Fast and stable combustible-gas detection

The latest-generation CatEx DD gas sensor is based on the proven catalytic bead principle. Innovative dual active elements result in very good long-term zero stability. Dräger has raised the bar yet again for poison resistance. The resulting long service life provides you with low ownership costs. Measuring performance has also been improved. The innovative gas inlet allows the sensor to respond to gas within a matter of seconds.

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

Advanced display with diagnostics

The large, illuminated graphic backlit display shows status information clearly and in an easy-to-use format. 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 graphed on the display.

Benefits

Monitor remote areas up to 30 meters away

A remote sensor enclosure with a cable up to 30 meters long is available for electrochemical sensors, designed for use in ordinary location areas. For Cat Ex sensors, flameproof "Ex d" and increased-safety "Ex e" remote sensor enclosures are available for use in hazardous atmospheres.

Accessories

D-85375-2013

Remote enclosure for EC toxic-gas sensor

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

D-13693-2010

Remote enclosure for Cat Ex sensor type "e"

The Polytron® SE EX combustible-gas sensing head can be placed up to 30 meters away from the PointGard® 2200. ATEX and IECEx zone 1 and 2 as well as zone 21 and 22 allow operation in hazardous areas. Please note that the three-conductor cable is not included.

Accessories

D-85323-2013

Remote enclosure for Cat Ex sensor type "d"

An aluminum or 316 stainless-steel explosion-proof enclosure allows operation of the CAT Ex sensor in a div. 1 or div. 2 hazardous area up to 30 meters away from the PointGard® 2200. Please note that the three-conductor shielded cable is not included.

Technical Data

Dräger PointGard® 2100 EC		Toxic gases and oxygen in ambient air
Dräger PointGard® 2200 CAT Ex		Flammable gases in ambient air

Type		Self-contained gas monitor with alarm devices for general-purpose applications	
Measuring ranges		Electrochemical (EC) sensor	Customized depending on sensor
		Catalytic bead (CAT Ex) sensor	0–100% LEL
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	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 (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	Flush 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"	

Technical Data

	Weight	2.5 kg/5.5 lb	
Type		Self-contained gas monitor with alarm devices for general-purpose applications	
Measuring ranges		Electrochemical (EC) sensor	Customized depending on sensor
		Catalytic bead (CAT Ex) sensor	0–100% LEL
Sensors	Electrochemical sensors (PointGard® 2100 EC)	Automatic configuration to one of 30+ different EC sensors	
		Smart sensor with calibration and configuration memory	
		See corresponding sensor data sheet for detailed information	
	Catalytic bead sensor (PointGard® 2200 CAT)	DrägerSensor® PR NPT DD 0–100% LEL	
		Response time t90:	10 s for methane, 13 s for propane
		Long-term stability (6 months)	<3% LEL drift on zero and span
		Operating temperature (remote sensor)	-40 to +85°C/-40 to +185°F
	CAT Ex remote sensor approval	The following hazardous area classification approvals only apply to explosion-proof "d" and flameproof "e" remote CAT Ex sensor enclosures:	
		IECEX / ATEX II 2GD Ex d IIC T6/T5/T4 Gb; IIIC T130°C Db	
		UL / CSA Cl. I, Div. 1, Grp. A, B, C, D; Cl. II, Div. 1, Grp. E, F, G	
		Please see CAT Ex DD sensor IfU p/n 90 33 136 for additional details.	

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

EC Sensors (Maximum Range, Field Adjustable)

DrägerSensor® AC Acidic Compounds 0–30 ppm	68 10 595
DrägerSensor® Cl2 Chlorine 0-50 ppm	68 09 665
DrägerSensor® CO Carbon Monoxide 0-1,000 ppm	68 09 605
DrägerSensor® CO LS Carbon Monoxide 0–5,000 ppm	68 09 620
DrägerSensor® CO LH Carbon Monoxide 0–300 ppm	68 12 570
DrägerSensor® COCl2 Phosgene 0–20 ppm	68 09 930
DrägerSensor® H2 Hydrogen 0–3,000 ppm	68 09 685
DrägerSensor® H2O2 HC Hydrogen Peroxide 0–7,000 ppm	68 09 675
DrägerSensor® H2O2 LC Hydrogen Peroxide 0–300 ppm	68 09 705
DrägerSensor® H2S Hydrogen Sulfide 0–100 ppm	68 10 435
DrägerSensor® H2S HC Hydrogen Sulfide 0–1,000 ppm	68 09 710
DrägerSensor® H2S LC Hydrogen Sulfide 0–100 ppm	68 09 610

Ordering Information

DrägerSensor® HCl Hydrogen Chloride 0–100 ppm	68 09 640
DrägerSensor® HCN Hydrogen Cyanide 0-50 ppm	68 09 650
DrägerSensor® HCN LC Hydrogen Cyanide 0–50 ppm	68 13 200
DrägerSensor® PH_3/AsH_3 Phosphine/Arsine 0–10 ppm	68 09 695
DrägerSensor® Hydride 0–20 ppm	68 09 635
DrägerSensor® Hydride SC 0–1 ppm	68 09 980
DrägerSensor® N_2H_4 Hydrazine 0–5 ppm	68 10 180
DrägerSensor® NH_3 HC Ammonia 0–1,000 ppm	68 09 645
DrägerSensor® NH_3 LC Ammonia 0–300 ppm	68 09 680
DrägerSensor® NH_3 TL Ammonia 0–300 ppm	68 13 095
DrägerSensor® NH_3 FL Ammonia 0–300 ppm	68 13 260
DrägerSensor® NO Nitric Oxide 0–200 ppm	68 09 625
DrägerSensor® NO_2 Nitrogen Dioxide 0–100 ppm	68 09 655
DrägerSensor® NO_2 LC Nitrogen Dioxide 0–20 ppm	68 13 205
DrägerSensor® O_2 Oxygen 0–100% Vol.	68 09 720
DrägerSensor® O_2 LS Oxygen 0–25% Vol.	68 09 630
DrägerSensor® O3 Ozone 0–5 ppm	68 10 290
DrägerSensor® OV_1 Organic Vapors 0–200 ppm	68 10 740
DrägerSensor® OV_2 Organic Vapors 0–100 ppm	68 10 745
DrägerSensor® SO_2 Sulfur Dioxide 0–100 ppm	68 09 660
Dräger PointGard® 2200 CAT (Order Remote Enclosure Separately)	
Dräger PointGard® 2200 CAT AC Power (CAT Ex Sensor included)	83 26 421
Dräger PointGard® 2200 CAT AC for Remote (CAT Ex Sensor not included)	83 26 422
Dräger PointGard® 2200 CAT DC Power (CAT Ex Sensor included)	83 26 424
Dräger PointGard® 2200 CAT DC for Remote (CAT Ex Sensor not included)	83 26 425
Dräger PointGard® 2200 CAT Accessories	
Remote Sensor Explosion-Proof Junction Box Aluminum (w/o sensor)	45 44 099
Remote Sensor Explosion-Proof Junction Box Stainless Steel (w/o sensor)	45 44 098
DrägerSensor® CAT Ex DD with NPT thread 0–100% LEL	68 12 380
Remote Enclosure Flameproof Polytron SE Ex (w/ sensor)	68 12 711
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 Beacon, green	83 26 419
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

Notes

Not all products, features, or services are for sale in all countries.

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