



# Dräger PointGard 3200

## Detection of flammable gases and vapours

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The Dräger PointGard 3200 is a complete 1-channel gas detection system for measuring combustible gases or vapours in ambient air. In the robust yet compact housing with IP66 protection class already contains all the necessary alarm equipment.

# Benefits

## All-in-one

The PointGard 3200 is the optimal solution for all those who need a gas detection system but who do not want to go through the hassle of assembling all the necessary components. It contains the measuring function of a transmitter, the assessment function of a controller and the necessary alarm equipment such as flashing lights and horn. The AC versions of the PointGard 3200 can be operated with the optional mains plug at any standard power outlet. If the measuring location is not suitable for mounting the PointGard, you can also order the device without a sensor and place it up to 30 m away with the corresponding remote accessories. Appropriate accessories are also available for use in pipes and ventilation shafts.

## The Application

The PointGard 3200 is used where a gas concentration needs to be monitored locally. A typical application is the measurement of flammable gases and vapours in unventilated or closed rooms. For this, the PointGard 3200 is installed outside the room at the entrance and the sensor in the room to be monitored. This way you are informed about the gas concentration before entering the room. If the set alarm limits are exceeded, the PointGard warns you with the integrated alarm devices. It can also trigger automatic ventilation so that the concentration is lowered and the room can be entered again without danger.

## The Measurement Technology

Inside the PointGard 3200, the proven electronics of the Dräger Polytron 8200 are used. The DrägerSensor DQ, which is characterised by long service life and long-term stability, is used for measurement. With this sensor, the PointGard 3200 is able to measure practically all flammable gases and vapours in a range of 0 - 100 % LEL (lower explosion limit). The catalytic bead DrägerSensor DQ enables continuous measurement under atmospheric conditions in a temperature range from -40 °C to +65 °C.

## The integrated Alarm Equipment

The PointGard 3200 already includes visual and audible alarms. The bright and long-lasting flashing lights warn of danger from a distance in orange (pre-alarm) and red (main alarm). If a distinction is to be made between safe and unsafe conditions, there are combinations in green (safe) and red (unsafe) or green (safe) and blue (unsafe). The integrated horn has a sound pressure of 85-100 dB. It has been selected for industrial use in noisy environments. It can be reduced in volume for less noisy environments, for example in the laboratory.

## The Power Supply

The PointGard 3200 contains a 120 ... 230 VAC/ 24 VDC power supply. It can optionally be ordered with the power cable and country-specific plug. If a local 24 VDC supply is already available, a variant without power supply unit is also available.

# Benefits

## The Operability

The measured value, gas name and measuring unit are permanently shown on the display. If required, the concentration history of the last 15 minutes can also be shown. The display has a backlight in red or green to ensure readability even in poor lighting conditions. The colours are adjustable via a slide switch inside the device. Below the display there are three status LEDs in green (ready), yellow (error) and red (alarm). All settings on the PointGard 3200 are made via a password-protected menu. The three-button control allows quick navigation through the menu items. Measuring range and alarm thresholds are already set to the usual values ex works. They can also be adjusted at any time.

## The Interfaces

In addition to the integrated alarm means, the PointGard 3200 also has potential-free changeover relays. These enable additional automated switching measures. Relays are available for A1, A2 and faults. In addition, an external switching contact, for example a fault contact of neighboring machines, can be read in and thus the green light (safe status) on the PointGard 3200 can be switched off. For integration into higher-level systems (visualization systems, data acquisition systems, PLCs, central gas warning systems), the analog 4-20 mA current interface according to NE 43 can be used. HART® communication allows you to synchronize settings with a connected Dräger REGARD 3000 or Dräger REGARD 7000. In addition, remote access is possible via HART® using the Dräger PolySoft software or other HART® HHT.

# Related Products



D-1.531.6-2023

## Dräger PointGard 3100

The Dräger PointGard 3100 is a complete 1-channel gas detection system for measuring toxic gases or oxygen in ambient air. The robust yet compact housing with IP66 protection class already contains all necessary alarm equipment.

## Related Products

D-6573-2023



### Dräger PointGard 3700

The Dräger PointGard 3700 is a complete 1-channel gas detection system for measuring combustible gases or vapours in ambient air. In the robust yet compact housing with IP66 protection class already contains all the necessary alarm equipment.

D-11833-2023



### Dräger PointGard 3720

The Dräger PointGard 3720 is a complete 1-channel gas detection system for measuring carbon dioxide in ambient air. In the robust yet compact housing with IP66 protection class already contains all the necessary alarm equipment.

# Technical Data

## Dräger PointGard 3200 CAT

Type	Self-contained gas monitor with alarm devices for monitoring flammable gases and vapours in the ambient air	
Measuring ranges	Catalytic Bead Sensor (CAT Ex)	0?100% LEL

## Electrical data

Signal output analog	Normal operation	4-20 mA
	Maintenance	Constant 3.4 mA or 4 mA $\pm$ 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 @ 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	
Relay specification	2 alarm relays and 1 fault relay	
	SPDT contact 5 A @ 230 VAC, 5 A at 30 VDC, resistance bound	
	Alarm reset through front-mounted push button	
Alarm device	Variants with amber and red LED strobes activate these on 2 alarm levels independently	
	Variants with green steady light activate red strobe on both alarm levels. 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	

## 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	

# Technical Data

## 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 1/2" NPT
Size (L x W x D)	255 x 280 x 120 mm/10 x 11 x 4.7"
Weight	3.9 kg/8.6 lb

## Environmental conditions

Temperature (storage)	-20 to +65 °C/-4 to +149 °F
Temperature (operation)	-20 to +50 °C/-4 to +122 °F
Pressure	20.7 to 38.4" Hg/700 to 1,300 hPa
Humidity	0 to 95% r. h., noncondensing

# Ordering Information

## Dräger PointGard 3200 CAT (Order Remote Housing separately)

Dräger PointGard 3200 CAT AC (CatEx Sensor included)	37 28 173
Dräger PointGard 3200 CAT AC for Remote (CatEx Sensor not included)	37 28 171
Dräger PointGard 3200 CAT DC (CatEx Sensor included)	37 28 169
Dräger PointGard 3200 CAT DC for Remote (CatEx Sensor not included)	37 28 168
Dräger PointGard 3200 CAT AC with green steady light (CatEx Sensor included)	37 28 172
Dräger PointGard 3200 CAT AC for Remote with green steady light (CatEx Sensor not included)	37 28 170

## Dräger PointGard 3200 CAT accessories

Remote Sensor DQ NPT Alu (Ex d)	37 06 933
Remote Sensor DQ NPT Steel (Ex d)	37 06 934
Remote housing fire resistant Dräger Polytron® SE Ex	68 12 711
Dräger Polytron® SE Ex LC M1 DD0-10% LEL	68 12 722
Dräger Polytron® SE Ex LC M2 DD 0-10% LEL	68 12 721

## Dräger PointGard 3000 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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