

## Dräger VarioGard® 3000 Toxic Gas Detection

The Dräger VarioGard® 3000 EC is a digital transmitter with an integrated electrochemical sensor. It detects oxygen and toxic gases in the ambient air. This affordable system component makes it easier for you to configure a gas warning system.



## Benefits

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### Digital function

The Dräger VarioGard 3000 EC is connected with the controller via the digital VarioGard bus. This is how it is supplied with electricity and how it transmits its measuring results. You can easily control the entire VarioGard system via the VarioGard bus.

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### High reliability

The VarioGard 3000 EC is equipped with an electrochemical DrägerSensor. This sensor measures the concentration of toxic gases in the ambient air. The measured values are transmitted digitally to the controller and displayed there. An alarm is triggered if the gas concentration exceeds one or more of the limit values configured.

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### Easy operation

The operation is extremely easy. You can make all configurations comfortably from the controller using VarioGard software. You can configure and monitor four current limit values and four averages over time for each transmitter. The alarms are optically and acoustically displayed on the transmitter and transmitted to the controller. A three-colour LED indicates the operating status of the transmitter. The calibration is controlled using a magnetic wand via contact points.

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### Individually configurable

The VarioGard 3000 EC is adaptable to your needs. This means that you have different sensors available depending upon the desired use:

CO, NO<sub>2</sub> and NO for garages, O<sub>2</sub> for oxygen supplies and NH<sub>3</sub> for cooling facilities, for example.

In addition, you can place the cable inlets on all four sides of the transmitter. The transmitter can be mounted vertically as well as horizontally.

## Technical Data

Type	Transmitter for the measurement of concentrations of gases in the ambient air	
Gases and measuring ranges	Carbon monoxide CO	0 to 300 ppm
	Ammonia NH <sub>3</sub>	0 to 1200 ppm
	Oxygen O <sub>2</sub>	0 to 25 vol. %
	Nitrogen monoxide NO	0 to 50 ppm
	Nitrogen dioxide NO <sub>2</sub>	0 to 20 ppm
Display	3-colour LED (green, yellow, red): operation, maintenance, alarm	
Input	2 function buttons	
Alarm output	Horn and red LED	
Alarms	8 configurable alarm limits	
Electrical data	3-wire cable 16 to 30V DC, GND, Dräger VarioGard bus	
Ambient conditions	Temperature	-20 to 50 °C
	Humidity	10 to 95 % r. h., non-condensing
	Pressure	700 to 1300 hPa
Regulations/standards	VDI 2053 (2004) Air treatment systems for car parks EN 50545-1 Electrical apparatus for the detection and measurement of toxic and combustible gases in car parks and tunnels	
Dimensions (with a cable inlet)	120 x 110 x 60 mm (WxHxD) plastic 120 x 120 x 60 mm (WxHxD) aluminium	
Weight	0.4 kg plastic 1.0 kg aluminium	
Housing	Plastic ABS light grey RAL 7035 IP 65 Aluminium light grey RAL 7035 IP 65	
Cable inlet	M20 x 1.5, 6 – 12 mm	

## Ordering Information

VarioGard 3000 EC CO PL (plastic housing)	83 22 050
VarioGard 3000 EC NO <sub>2</sub> PL (plastic housing)	83 22 051
VarioGard 3000 EC NH <sub>3</sub> PL (plastic housing)	83 22 052
VarioGard 3000 EC O <sub>2</sub> PL (plastic housing)	83 22 053
VarioGard 3000 EC NO PL (plastic housing)	83 22 054
VarioGard 3000 EC CO AL (aluminium housing)	83 22 055
VarioGard 3000 EC NO <sub>2</sub> AL (aluminium housing)	83 22 056
VarioGard 3000 EC NH <sub>3</sub> AL (aluminium housing)	83 22 057
VarioGard 3000 EC O <sub>2</sub> AL (aluminium housing)	83 22 058
VarioGard 3000 EC NO AL (aluminium housing)	83 22 059
Calibration adapter VarioGard 3x00	83 22 015
Magnetic wand	45 43 428
VarioGard system technical handbook	90 33 191
Software set VarioGard 3x00 (including USB adapter)	83 22 016
Cable inlet M20 x 1.5 (set of 10)	83 15 420
VarioGard Instructions for Use	90 33 185

## Notes

### CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
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[www.draeger.com](http://www.draeger.com)

### Manufacturer:

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Locate your Regional  
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