



Dräger VarioGard® 3000 EC Detector for toxic gases and oxygen

The Dräger VarioGard® 3000 EC is a digital transmitter with an integrated electrochemical sensor. It detects toxic gases such as CO, NO₂, NO, NH₃ and oxygen in non Ex areas such as underground garages, laboratories and in cold storage houses.

Benefits

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.

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.

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.

Individually configurable

The VarioGard 3000 EC is adapted to your system. Depending on the application, different sensors are available: CO, NO₂ and NO for garages, O₂ for oxygen supply systems and NH₃ for e.g. cold storage houses.

Focus on sustainability

The VarioGard transmitter aligns with Dräger's sustainability philosophy by incorporating durable DrägerSensors, enabling an extended service life for the device. The new housing design optimises material usage compared to its predecessor. Additionally, existing accessories and electronic spare parts from the previous series remain compatible, reducing waste. Dräger also facilitates the recycling of old devices by accepting them for disposal.

Details



D-15318-2023

Dräger VarioGard® 3000 EC during normal operation



D-15319-2023

Dräger VarioGard® 3000 EC during normal operation



D-15320-2023

Dräger VarioGard® 3000 EC during normal operation

System Components



ST-9754-2007

Dräger VarioGard® Central Unit

The Dräger VarioGard® Central Unit is at the center of a cost-efficient, modular gas detection system. A digital Bus makes it possible to connect and manage up to 100 transmitters for various gases.



D-10614-2022

Dräger VVP 1000

The Dräger VVP 1000 is a 10" touch panel that provides a clear and simple display of all data from your Dräger VarioGard® gas detector. The touch panel visualises all relevant information such as measurement values and status messages in a way that is well organised and easy to understand.

Accessories

D-2215-2015



Test gas

SI-5690-2006



Cable inlet M20 x 1.5 (set of 10)

D-5952-2014



Calibration adapter VarioGard

D-85363-2013



Magnetic wand (blue)

for menu access

Technical Data

Dräger VarioGard® 3000 EC

Type	Transmitter for the measurement of concentrations of gases in the ambient air	
Gases and measuring ranges	Carbon monoxide	0 to 300 ppm
	Ammonia	0 to 1200 ppm
	Oxygen	0 to 25 vol.%
	Nitrogen monoxide	0 to 50 ppm
	Nitrogen dioxide	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 adjustable alarm thresholds	

Electrical Data

Wiring	3-wire
Communication	Dräger VarioGard® Bus
Supply voltage	16 to 30 VDC

Housing

Material	Plastic ABS light grey RAL 7035
Protection Class	IP65
Dimensions	124mm x 94mm x 63mm (W x H x D)
Weight	400 g
Cable inlet	M20 x 1,5; 6 to 12 mm

Ambient Conditions

Temperature	-20 °C to +50 °C / -4 °F to +122 °F
Humidity	10 to 95 % RH, non-condensing
Pressure	700 to 1,300 hPa / 23.6 to 32.5 inch Hg

Directives and standards

VDI 2053 (2004) Ventilation systems for garages
EN 50545-1 Measurement of toxic gases in garages and tunnels
CE marking Electric safety

Ordering Information

Dräger VarioGard® 3000 EC

Dräger VarioGard® 3000 EC NO ₂ LC	37 21 947
Dräger VarioGard® 3000 EC O ₂	37 21 948
Dräger VarioGard® 3000 EC NO	37 21 949
Dräger VarioGard® 3000 EC CO	37 21 950
Dräger VarioGard® 3000 EC NH ₃	37 21 951

Accessories

Magnetic Wand	45 44 101
Calibration adapter VarioGard® 3x0/23x0	83 22 015
Cable inlet M20 x 1.5 (set of 10)	83 15 420
Software-Set VarioGard® (incl. USB Adapter)	83 22 016
Instruction for Use VarioGard®	90 33 185

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