Dräger VarioGard® 3320 IR Detector for toxic gases and oxygen

The Dräger VarioGard® 3320 IR is a digital transmitter with an integrated infrared optical DrägerSensor®. It detects carbon dioxide in non Ex areas such as breweries and wineries.

Dräger

Technology for Life

Benefits

Digital function

The Dräger VarioGard 3320 IR is connected with the controller via a 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 Dräger VarioGard 3320 IR is equipped with an infrared optical DrägerSensor. This sensor measures the concentration of carbon dioxide 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 configured limit values.

Easy operation

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 sensor detects carbon dioxide in the ambient air. You can set it to both vol.% and ppm.

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® 3320 IR during normal operation

D-15319-2023

Dräger VarioGard® 3320 IR during normal operation

D-15320-2023

Dräger VarioGard® 3320 IR 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

ST-5690-2006

Cable inlet M20 x 1.5 (set of 10)

D-2215-2015

Test gas

D-5952-2014

Calibration adapter VarioGard

D-85363-2013

Magnetic wand (blue)

for menu access

Technical Data

Dräger VarioGard® 3300 IR

Type	Transmitter for the measurement of concentrations of gases in the ambient air	
Gases and measuring ranges	Carbon dioxide	0 to 5 vol.%
		0 to 10,000 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® 3300 IR	
Dräger VarioGard® 3300 IR CO_2	37 21 956

Accessories	
Magnetic Wand	45 44 101
Calibration adapter VarioGard® 3xx0/23x0	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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