



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BVS 18.0020X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2018-04-04)
Date of Issue:	2021-08-23		
Applicant:	GfG Gesellschaft für Gerätebau mbH Klönnestr. 99 44143 Dortmund Germany		
Equipment:	Gas detector type G222E		
Optional accessory:			
Type of Protection:	Intrinsic Safety "i"		
Marking:	Ex ia IIC T4/T3 Ga Ex ia I Ma	(Details see ratings)	

Approved for issue on behalf of the IECEx
Certification Body:

Dr Michael Wittler

Position:

Deputy Head of Certification Body

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



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Date of issue: 2021-08-23

Issue No: 1

Manufacturer: **GfG Gesellschaft für Gerätebau mbH**
Klönnestr. 99
44143 Dortmund
Germany

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR18.0022/01](#)

Quality Assessment Report:

[DE/BVS/QAR07.0002/14](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information:

The Gas detector type G222E is a portable instrument with a replaceable power supply battery.

It is used for the detection of gases in ambient air under atmospheric conditions.

The Gas detector type G222E contained 2 electro-chemical cells for gas measuring.

The measurement values are shown on a built-in display. If the present limits are reached, a visual alarm, an audible alarm and a vibrating alarm are produced.

The gas detector type G222E is powered by one alkaline battery which has to be changed only outside of the hazardous area.

Ratings

Power supply battery (one primary cell)

Nominal voltage 1.5 V

The approved alkaline battery type is listed in the manufacturer instructions of GfG Gesellschaft für Gerätebau mbH.

Ambient temperature range depend on temperature class:

Temperature class	Ambient temperature range
T4	$-20\text{ °C} \leq T_a \leq +45\text{ °C}$
T3 and Group I	$-20\text{ °C} \leq T_a \leq +55\text{ °C}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

The measurement function for explosion protection is not subject of this CoC.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- The Gas detector type G222E was tested in accordance to the standard IEC 60079-0:2017.
- The Gas detector type G222E can also be used in Group I areas.
The marking was enhanced with Ex ia I Ma.