



# 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](http://www.iecex.com)

Certificate No.:	<b>IECEX DEK 11.0045</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 4	Issue 3 (2020-06-25)
Date of Issue:	2021-06-16		Issue 2 (2014-11-19)
Applicant:	<b>RIKEN KEIKI Co., Ltd.</b> 2-7-6, Azusawa, Itabashi-ku, Tokyo, 174-8744, Japan		Issue 1 (2012-04-13)
Equipment:	<b>Portable Gas Monitor Model GX-2012 and Model GX-2012GT</b>		Issue 0 (2011-06-28)
Optional accessory:			
Type of Protection:	<b>Ex i</b>		
Marking:	<b>Ex ia IIC/IIB T4 Ga</b>		

Approved for issue on behalf of the IECEx  
Certification Body:

**R. Schuller**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

2021-06-16

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Netherlands





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Manufacturer: **RIKEN KEIKI Co., Ltd.**  
2-7-6, Azusawa,  
Itabashi-ku,  
Tokyo, 174-8744,  
Japan

Additional manufacturing locations: **RIKEN KEIKI NARA MFG. Co., Ltd.**  
49-1, Abe, Sakurai-shi,  
Nara, 633-0054,  
Japan

**RIKEN KEIKI Co., Ltd.**  
2-3, Minamisakae-cho,  
Kasukabe-shi,  
Saitama, 344-0057,  
Japan

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:

[NL/DEK/ExTR11.0038/04](#)

Quality Assessment Report:

[NO/PRE/QAR19.0018/03](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Portable Gas Monitor Model GX-2012 is a gas monitor designed to provide continuous monitoring of exposure to combustible gas, oxygen (O<sub>2</sub>), carbon monoxide (CO) and hydrogen sulfide (H<sub>2</sub>S) in hazardous areas. The Portable Gas Monitor Model GX-2012GT is a gas monitor designed to provide continuous monitoring of exposure to combustible gas, oxygen (O<sub>2</sub>), carbon monoxide (CO) in hazardous areas.

Ambient temperature range for use -20 °C to +50 °C.

Ambient temperature range during charging 0 °C to +40 °C (non hazardous area only).

The relation between sensor type used and gas group is per following table:

Sensor type	Gas group
O2 (oxygen) CO (carbon monoxide) H2S (hydrogen sulphide) TE-7561 (combustible gas thermal conductivity sensor) SH-8641 (combustible gas hot-wire semiconductor sensor)	IIC
NC-6264A (combustible gas thermocatalytic sensor)	IIB

## Additional information

The performance of the Portable Gas Monitor Model GX-2012 and Model GX-2012GT, as a safety device, is not covered by this certificate.

## Electrical data

Supply: Battery unit type BUD-2012 with three series connected Alkaline Manganese AA batteries, type LR6 manufactured by Toshiba, or rechargeable battery unit type BUL-2012 to be charged with associated charger model BC-2012 or model SDM-2012.

Backup battery type CR1220 manufactured by Maxell.

**SPECIFIC CONDITIONS OF USE: NO**



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**  
evaluation per IEC 60079-0: 2017 (ed.7.0)  
amended marking to state IIB when thermocatalytic sensors used