



# 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.: **IECEx PRE 15.0011**

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Certificate history:

Status: **Current**

Issue No: 7

[Issue 6 \(2022-11-11\)](#)

[Issue 5 \(2021-08-13\)](#)

[Issue 4 \(2021-04-30\)](#)

[Issue 3 \(2020-08-27\)](#)

[Issue 2 \(2019-10-30\)](#)

[Issue 1 \(2015-06-16\)](#)

[Issue 0 \(2015-04-21\)](#)

Date of Issue: **2023-11-15**

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

Equipment: **Portable Gas Monitors GX-6000 and GX-6100**

Optional accessory:

Type of Protection: **Intrinsic safe and flameproof safety**

Marking: **Ex ia IIB T4/T3 Ga**  
**Ex ia IIC T4/T3 Ga**  
**Ex da ia IIC T4/T3 Ga**

See *equipment* below for details.

Approved for issue on behalf of the IECEx  
Certification Body:

**Asle Kaastad**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

**2023-11-15**

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Certificate issued by:

**DNV Product Assurance AS**  
**Veritasveien 1**  
**1363 Høvik**  
**Norway**





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

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

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

**TOKYO MICRO SEIKI Co., Ltd.**  
1-15-24, Shingashi, Itabashi-ku,  
Tokyo, 175-0081,  
**Japan**

**See following pages for more 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 60079-1:2014** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
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 Reports:

**NO/DNV/ExTR21.0088/00**

**NO/PRE/ExTR15.0012/06**

Quality Assessment Report:

**NO/PRE/QAR19.0018/06**



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

This report covers the portable gas monitor GX-6000 and GX-6100, which is used for measuring flammable gas concentration in hazardous location. GX-6000 and GX-6100 are battery-operated handheld portable devices and are built up by anti-electrostatic plastic enclosure with minor metal parts such as assembly screws. Different alternative battery units may be used, **BUL-6000/6100** (rechargeable Li-ion battery) and **BUD-6000/6100** (alkaline dry battery). All battery units can be used for GX-6000 and GX-6100. Replacement or charging of battery unit can be performed by end-users and is only allowed in non-hazardous areas. Safety instructions and warnings must be followed. Following parts are also included in the investigation, charger module **BC-6000** or **SDM-6000**, Combustible gas sensor, Toxic gas sensor and Oxygen sensor, Smart sensor type **DES, ESS, PIS, SHS & OSS**.

GX-6000: When the combustible gas sensor is used the gas group is limited to **IIB**.

GX-6100: Combustible gas sensor, **NCR-6309**, is used and the gas group is **IIC**, as sensor is certified as "da".

Ambient temperature range during battery charging:  $-0^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

**SPECIFIC CONDITIONS OF USE: NO**



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## Equipment (continued):

### GX-6000:

Ex code	Ambient temperature	Combustible gas sensor	Battery
Ex ia IIB T4 Ga	-20°C to +50°C	Mounted	BUL-6000 / BUL-6100
Ex ia IIC T4 Ga	-20°C to +50°C	Not mounted	BUL-6000 / BUL-6100
Ex ia IIB T4 Ga	-20°C to +50°C	Mounted	BUD-6000 / BUD-6100 LR6 (Toshiba)
Ex ia IIC T4 Ga	-20°C to +50°C	Not mounted	BUD-6000 / BUD-6100 LR6 (Toshiba)
Ex ia IIB T3 Ga	-20°C to +50°C	Mounted	BUD-6000 / BUD-6100 MN1500 (Duracell)
Ex ia IIC T3 Ga	-20°C to +50°C	Not mounted	BUD-6000 / BUD-6100 MN1500 (Duracell)

### GX-6100:

Ex code	Ambient temperature	Combustible gas sensor	Battery
Ex da ia IIC T4 Ga	-20°C to +50°C	Mounted	BUL-6100 / BUL-6000
Ex ia IIC T4 Ga	-20°C to +50°C	Not mounted	BUL-6100 / BUL-6000
Ex da ia IIC T4 Ga	-20°C to +50°C	Mounted	BUD-6100 / BUD-6000 LR6 (Toshiba)
Ex ia IIC T4 Ga	-20°C to +50°C	Not mounted	BUD-6100 / BUD-6000 LR6 (Toshiba)
Ex da ia IIC T3 Ga	-20°C to +50°C	Mounted	BUD-6100 / BUD-6000 MN1500 (Duracell)
Ex ia IIC T3 Ga	-20°C to +50°C	Not mounted	BUD-6100 / BUD-6000 MN1500 (Duracell)



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

New additional secondary cells for use in BUL-6100.



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Additional manufacturing locations:

**EBINA DENKI Manufacturing Co., LTD.**  
23-10, Yananecho,  
Kawaguchi-shi,  
Saitama, 333-0864,  
**Japan**