

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 24ATEX0016** Issue Number: **1**

(4) Product: **Portable gas monitor type GX-6000 and GX-6100**

(5) Manufacturer: **RIKEN KEIKI Co., Ltd.**

(6) Address: **2-7-6, Azusawa, Itabashi-ku, Tokyo, 174-8744, Japan**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report mentioned in item (16).

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018 + A11 : 2024

EN 60079-1 : 2014 + A11 : 2024

EN 60079-11 : 2012

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 1 G Ex ia IIB T4...T3 Ga
II 1 G Ex ia IIC T4...T3 Ga
II 1 G Ex da ia IIC T4...T3 Ga

Date of certification: 4 December 2024

DEKRA Certification B.V.

R. Schuller
Certification Manager



Throughout this document, a point is used as the decimal separator.

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 24ATEX0016** Issue No. 1

(15) **Description**

The portable battery-operated handheld gas monitors GX-6000 and GX-6100 are used for measuring flammable gas concentration in hazardous location.

Different battery units may be used, BUL-6000/6100 (rechargeable Li-ion battery) and BUD-6000/6100 (alkaline dry battery). Replacement or charging of battery unit can be performed by end-users and is only allowed in non-hazardous areas.

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.

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

Ambient temperature range during charging: 0 °C to +40 °C (Non-hazardous area only)

For more information about Type designation, Thermal data and Ex code see Annex 1 mentioned in item (16).

The examination of the portable gas monitor does not include a judgment of the functional performance of the equipment.

Electrical data

Battery operated:

Type GX-6000

- Power supply of Li-ion battery unit : BUL-6000
- Um=250V.
- Power supply of alkaline battery unit : BUD-6000

Type GX-6100

- Power supply of Li-ion battery unit : BUL-6100
- Um=17.8Vdc.
- Power supply of alkaline battery unit : BUD-6100

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/DEK/ExTR24.0017/01.

(17) **Specific conditions of use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report mentioned in item (16).