

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 11ATEX0123** Issue Number: **4**

(4) Product: **Portable Gas Monitor Model GX-2012/GX-2012GT**

(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 number NL/DEK/ExTR11.0038/04.

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

EN IEC 60079-0 : 2018

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 IIC/IIB T4 Ga

Date of certification: 16 June 2021

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 11ATEX0123**

Issue No. 4

(15) **Description**

The Portable Gas Monitor Model GX-2012 is a gas monitor designed to provide continuous monitoring of exposure to combustible gas, oxygen (O₂), carbon monoxide (CO) and hydrogen sulfide (H₂S) 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 (O₂), 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
O ₂ (oxygen) CO (carbon monoxide) H ₂ S (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 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.

Installation instructions

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

(16) **Report Number**

No. NL/DEK/ExTR11.0038/04.

(17) **Specific conditions of use**

None.

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

Covered by the standards listed at item (9).

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 11ATEX0123**

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(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR11.0038/04.

(20) **Certificate history**

Issue 1 - 214261600	initial certificate
Issue 2 - 216258900	evaluation per latest editions of the standards (edition 6) Additional battery types (internal of BUL-2012)
Issue 3 - 224649000	EN 60079-26 removed, no longer required for Ex ia
Issue 4 - 225576900	evaluation per EN IEC 60079-0: 2018 amended marking to state IIB when thermocatalytic sensors used