

# 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: **KEMA 10ATEX0085** Issue Number: **5**

(4) Product: **Portable Gas Monitor Model GX-8000**

(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/KEM/ExTR10.0035/05.

(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 KEMA 10ATEX0085**

Issue No. 5

(15) **Description**

The Portable Gas Monitor Model GX-8000 is a gas monitor designed to provide continuous monitoring of exposure to combustible gas, oxygen (O<sub>2</sub>), carbon monoxide (CO) and hydrogen sulphide (H<sub>2</sub>S) in hazardous areas.

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

Ambient temperature range during charging 0 °C to +40 °C.

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

Sensor type	Gas group
O <sub>2</sub> (oxygen)	IIC
CO (carbon monoxide)	
H <sub>2</sub> S (hydrogen sulphide)	
TE-7515 (combustible gas thermal conductivity sensor)	
SH-8605 (combustible gas hot-wire semiconductor sensor)	
NC-6215 (combustible gas thermocatalytic sensor)	IIB

**Additional information**

The performance of the Portable Gas Monitor Model GX-8000, as a safety device, is not covered by this certificate.

**Electrical data**

Supply: Battery unit type BUD-8000 with three series connected Alkaline Manganese AA batteries, type LR6 manufactured by Toshiba, or rechargeable battery unit type BUL-8000. 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/KEM/ExTR10.0035/05.

(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 No. NL/KEM/ExTR10.0035/05.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 10ATEX0085**

Issue No. **5**

(20) **Certificate history**

Issue 0 - 213208400	initial certificate
Issue 1 - 213865600	addition of alternative type of piezo buzzer
Issue 2 - 214266800	Non safety related changes
Issue 3 - 216258900	evaluation per latest editions of the standards additional battery types (internal of BUL-8000)
Issue 4 - 224649000	EN 60079-26 removed, no longer required for Ex ia
Issue 5 - 225576900	evaluation per EN IEC 60079-0: 2018 amended marking to state IIB when thermocatalytic sensors used