

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 24ATEX0013** Issue Number: **1**

(4) Product: **Portable Gas Monitor (Interferometer) Model FI-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/DEK/ExTR24.0014/01.

(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:



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Date of certification: 4 October 2024

DEKRA Certification B.V.

R. Schuller
Certification Manager

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

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 24ATEX0013** Issue No. 1

(15) **Description**

The Portable Gas Monitor Model FI-8000 is an optical interferometer designed to measure gas concentration or calorie of flammable gases in hazardous areas. There are two ways of suctioning air; manual suction using a rubber bulb and automatic suction using an internal micro pump. Model FI-8000 is combined with Battery Unit Model BUD-8000 or Model BUL-8000. Model BUD-8000 includes primary batteries and Model BUL-8000 includes secondary Li-ion battery. Replacement or charging of Battery Unit can be performed by end-users and is only allowed in non-hazardous areas.

For the temperature class, T4 is applied when combined with Model BUL-8000 or with Model BUD-8000 including batteries of LR6T(JE), Toshiba. T3 is applied when combined with Model BUD-8000 including batteries of MN1500, Duracell.

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

Ambient temperature range during charge 0 °C to +40 °C

Additional information

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

Electrical data

Supply: Battery Unit Model BUD-8000 with three series connected primary batteries, or Rechargeable Battery Unit Model BUL-8000.

Non-replaceable primary battery for backup.

Refer to manufacturer's instructions for the permitted battery types.

Installation instructions

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

(16) **Report Number**

NL/DEK/ExTR24.0014/01.

(17) **Specific conditions of use**

None.

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

Covered by the standards listed at item (9).

Test documentation

As listed in Report No. NL/DEK/ExTR24.0014/01.