

EU-TYPE EXAMINATION CERTIFICATE

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: **Presafe 14 ATEX 5711X** **Issue 2**
- [4] Product: **Portable Gas Monitor (Interferometer)**
- [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] DNV GL Presafe AS, notified body number 2460, 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 reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0: 2018 and EN 60079-11: 2012
- [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 T4 Ga -20°C ≤ Ta ≤ +50°C**

Date of issue:
2020-08-27



Asle Kaastad
For DNV GL Presafe AS
The Certificate has been digitally signed.
See www.dnvgl.com/digitalsignatures for info



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DNV GL Presafe AS, Veritasveien 3, 1363 Høvik, Norway, Tel +47 67 57 88 00, www.dnvgl.com

- [13] **Schedule**
- [14] **EU-Type Examination Certificate No:** Presafe 14 ATEX 5711X Issue 2

[15] **Description of Product**

This certificate covers the portable gas monitor (optical interferometer) model FI-8000 which is used for measuring gas concentration of flammable gases in hazardous location. FI-8000 is a battery-operated handheld portable device and is built up by anti-electrostatic plastic enclosure with minor metal parts such as assembly screws. The display is located in front of equipment. At the bottom/rear side is the battery unit. Two alternative battery units may be used. BUD-8000 is the alkaline dry battery unit and BUL-8000 is the Li-ion battery unit. Replacement or charging of battery unit can be performed by end-users and is only allowed in non-hazardous areas. Safety instructions/warnings must be followed.

Type designation

FI-8000

Electrical Data

Battery operated. BUL-8000 (rechargeable Li-ion battery unit) or BUD-8000 (Alkaline battery unit) For BUD-8000: use only Toshiba LR6 AA-batteries.

Degrees of protection (IP Code)

(Compliance with requirement of IP20 is checked)

Ambient temperature:

$-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Routine tests

N/A

- [16] **Report No.:** 184490

[17] **Specific Conditions of Use**

"X" - The measuring function according to Annex II paragraph 1.5.5 of the Directive is not covered this EU-type examination. It shall comply with the requirements from the relevant European harmonized standards which provide guidance on the performance of gas detection equipment

[18] **Essential Health and Safety Requirements**

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] **Drawings and documents**

Number	Title	Rev.	Date
E3-6991-5467-90-01K	INDEX FI-8000	2	2020.3.31

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2015-03-02	D0001493-00
1	Update. Alternative material for hand aspirator.	2015-04-29	D0001493-01
2	Update to latest EN IEC 60079-0 standard and notified body number	2020-08-27	184490

END OF CERTIFICATE

