


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 15 ATEX 7188X** **Issue 1**
- [4] Product: **Portable Gas Monitor**
- [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 ≤ +55°C**

Date of issue:
2020-08-31



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



This certificate may only be reproduced in its entirety and without any change, schedule included.

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 15 ATEX 7188X Issue 1

[15] **Description of Product**

This certificate covers the portable gas monitor SP-220 which is used for measuring gas and to provide continuous monitoring of combustible gas (ppm). Gas is sampled by a built-in micro pump. SP-220 is an 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 and at the bottom is the compartment for battery which is separated from electronic by plastic wall. Battery replacement can be performed by end-users but is only allowed in non-hazardous areas. Internal parts are batteries, main PCB (electronics), a small air pump, LCD module and the gas sensor. The sensor used inside SP-220 is not a catalytic combustion sensor. It is a semi-conductor type sensor. This sensor does not use platinum but tin oxide as chamber' s medium. Tin oxide does not heat even if it is exposed to hydrogen

Type designation

SP-220

Electrical Data

Battery operated. Use only Alkaline Manganese AA batteries, type LR6T(JE) manufactured by Toshiba.

Degrees of protection (IP Code)

(Compliance with requirement of IP20 is checked)

Ambient temperature:

-20°C ≤ Ta ≤ +55°C

Routine tests

N/A

[16] **Report No.:** 184494

[17] **Specific Conditions of Use**

"X" - The measuring function according to Annex II paragraph 1.5.5 of the Directive is not covered by 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 and safety devices.

[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
E4-6991-5545-00-01K	INDEX SP-220	5	2020.4.1

[20] **Certificate History**

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Issue	Description	Issue date	Report no.
0	Original issue	2015-10-26	D0001993-00
1	Update to latest EN IEC 60079-0 standard and notified body number.	2020-08-31	184494

END OF CERTIFICATE

