

# 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 24ATEX0023X** Issue Number: **0**

(4) Product: **Pump Unit (RP-3R series): RP-3R, RP-3R (Pro), RP-3R (S), RP-3R (Pro/S) and RP-3R (G)**

(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/ExTR24.0028/00.

(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 T4...T3 Ga**

Date of certification: 4 July 2024

DEKRA Certification B.V.

R. Schuller  
Certification Manager



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

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 24ATEX0023X** Issue No. 0

(15) **Description**

The series consist of models RP-3R, RP-3R (Pro), RP-3R (S), RP-3R (Pro/S) and RP-3R (G), they are optional accessories to manufacturer's Ex certified gas monitors. The sample gas is sucked by the build-in micro pump in these pump units. The model RP-3R (G) is a general gas suction pump. The other four models can be connected to the specific gas monitor type GX-3R or GX-3R Pro, and turn them from a diffusion type of gas monitor to the suction type. The pump unit models have different outer structure but internal electronics are identical.

The pump is a small hand-held device using a plastic housing with only smaller metallic part on the enclosure. The enclosure material is antistatic.

The pump is supplied by one AA Alkaline battery (cell) which replacement is only allowed in safe area. The battery compartment is separated from electronics. Internal parts are one small PCB and the micro pump.

Ambient temperature range:

T4:  $-20\text{ °C} \leq T_a \leq +40\text{ °C}$  or  $-20\text{ °C} \leq T_a \leq +50\text{ °C}$ , refer to manufacturer's instructions for details.

T3:  $-20\text{ °C} \leq T_a \leq +50\text{ °C}$

**Electrical data**

Supply: one primary battery, refer to manufacturer's instructions for permitted type(s).

**Installation instructions**

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

(16) **Report Number**

NL/DEK/ExTR24.0028/00.

(17) **Specific conditions of use**

- The relation of the ambient temperature range and the temperature class is given in the manufacturer's instructions.
- The manufacturer's instructions provide guidance for the user to minimize the risk from electrostatic discharge.

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

Covered by the standards listed at item (9).

**Test documentation**

As listed in Report No. NL/DEK/ExTR24.0028/00.