

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 11ATEX0095 X** Issue Number: **5**

(4) Product: **Gas Detector, Type SD-2500, SD-2600 and GD-A2400**

(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/ExTR10.0037/04.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018

EN 60079-1 : 2014

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 2 G Ex db IIC T3 Gb (SD-2500 and GD-A2400) or
Ex db IIC T2 Gb (SD-2600)**

Date of certification: 7 July 2020

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 11ATEX0095 X**

Issue No. 5

(15) **Description**

Gas Detectors, Type SD-2500 and SD-2600 are fixed mount continuous monitoring detectors and provide a 4 to 20 mA output signal.

Gas Detector, Type GD-A2400 is a fixed mount continuous monitoring detector head.

The examination of the gas detector does not include a judgement of the functional performance of the apparatus.

Ambient temperature range: -20 °C to +60 °C

Process temperature range: -20 °C to +160 °C for SD-2500 and GD-A2400

-20 °C to +200 °C for SD-2600

Electrical data

Supply: 24 Vdc, 95 mA for SD-2500 and SD-2600

2,3 Vdc, 360 mA for GD-A2400

Contact output (Relay): max. 30 Vdc / 250 Vac, max 0,5 A for SD-2500 and SD-2600

Installation instructions

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

(16) **Report Number**

No. NL/KEM/ExTR10.0037/04.

(17) **Specific conditions of use**

- The plastic window is submitted to tests corresponding to the low risk of mechanical danger.
- The property class of the cover bolts is at least A2-70.
- The flameproof joints are not intended to be repaired.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR10.0037/04.

(20) **Certificate history**

Issue 1	213349400	Initial certificate.
Issue 2	510001600	Assessment according to EN 60079-0 : 2012 + A11; Assessment of minor constructional changes.
Issue 3	510013400	Assessment according to latest edition of EN 60079-1; Assessment of minor constructional changes.
Issue 4	223935400	Addition of alternative coating materials.
Issue 5	224649000	Assessment per EN IEC 60079-0 : 2018;