

# 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 24ATEX0029X** Issue Number: **0**

(4) Product: **Gas Detector, Type GD-A80\*\*\***

(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/ExTR24.0024/00.

(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 T4 Gb**

Date of certification: 10 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 24ATEX0029X** Issue No. 0

(15) **Description**

Gas Detector, Type GD-A80\*\*\* is a fixed mount gas detector available with 4 different detection principles and with or without a suction chamber as laid down in the type designation.

The detector without suction chamber monitors the surrounding atmosphere.

The detector with a suction chamber is provided with process connections and monitors the connected atmosphere at atmospheric pressure and a temperature not exceeding the ambient temperature range.

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

**Type designation**

GD - A 80 \* \* \*  
a b c d e f

Code	Value	Designation	Remark or meaning
a	GD	Gas detector	Fixed value
b	A	Diffusion type	Fixed value
c	80	Type number	Fixed value
d	blank	Suction chamber	Without suction chamber
	D		With suction chamber
e	blank	Detection method	Catalytic combustion method
	V		Semiconductor method
	S		Hot-wire semiconductor method
	N		Thermal conductivity method
f	blank	Ambient temperature range	-40 °C to +53 °C
	-70		-40 °C to +70 °C Only with code e = blank

**Electrical data**

Type	Power Supply
GD-A80	3.0 Vdc / 430 mA or 5.0 Vdc / 200 mA
GD-A80V	6.5 Vdc / 205 mA or 3.5 Vdc / 350 mA
GD-A80N	3.3 Vdc / 170 mA or 1.0 Vdc / 220 mA
GD-A80S	3.0 Vdc / 500 mA or 5.0 Vdc / 200 mA
GD-A80-70	3.0 Vdc / 430 mA or 5.0 Vdc / 200 mA
GD-A80D	3.0 Vdc / 430 mA or 5.0 Vdc / 200 mA
GD-A80DV	6.5 Vdc / 205 mA or 3.5 Vdc / 350 mA
GD-A80DN	3.3 Vdc / 170 mA or 1.0 Vdc / 220 mA
GD-A80DS	3.0 Vdc / 500 mA or 5.0 Vdc / 200 mA
GD-A80D-70	3.0 Vdc / 430 mA or 5.0 Vdc / 200 mA



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 24ATEX0029X** Issue No. **0**

**Installation instructions**

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

(16) **Report Number**

NL/DEK/ExTR24.0024/00.

(17) **Specific conditions of use**

- Fasteners from stainless steel property class A2-70 are used. The fasteners shall only be replaced with identical ones.
- The flameproof joints are not intended to be repaired.
- The unearthed conductive label has a capacitance of 5 nF. Suitability in the specific application shall be determined by the user.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR24.0024/00.