



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX DEK 11.0040X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 5	Issue 4 (2020-07-07)
Date of Issue:	2022-10-28		Issue 3 (2019-09-06)
Applicant:	<b>RIKEN KEIKI Co., Ltd.</b> 2-7-6, Azusawa, Itabashi-ku, Tokyo, 174-8744, <b>Japan</b>		Issue 2 (2017-04-25)
Equipment:	<b>Gas Detector, Type SD-2500, SD-2600 and GD-A2400</b>		Issue 1 (2015-04-21)
Optional accessory:			Issue 0 (2011-05-26)
Type of Protection:	<b>Ex db</b>		
Marking:	Ex db IIC T3 Gb (SD-2500 and GD-A2400) or Ex db IIC T2 Gb (SD-2600)		

Approved for issue on behalf of the IECEx  
Certification Body:

**R. Schuller**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

2022-10-28

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2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



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**DEKRA Certification B.V.**  
Meander 1051  
6825 MJ Arnhem  
Netherlands





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Manufacturer: **RIKEN KEIKI Co., Ltd.**  
2-7-6, Azusawa,  
Itabashi-ku,  
Tokyo, 174-8744,  
**Japan**

Manufacturing  
locations: **RIKEN KEIKI Co., Ltd.**  
2-3, Minamisakae-cho,  
Kasukabe-shi,  
Saitama, 344-0057,  
**Japan**

**RIKEN KEIKI NARA MFG. Co., Ltd.**  
49-1, Abe, Sakurai-shi,  
Nara, 633-0054,  
**Japan**

**TOKYO MICRO SEIKI Co., Ltd.**  
1-15-24, Shingashi, Itabashi-ku,  
Tokyo, 175-0081,  
**Japan**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NL/KEM/ExTR10.0037/04](#)

Quality Assessment Report:

[NO/PRE/QAR19.0018/05](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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: -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

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- 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.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**  
addition of manufacturing location