



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

Certificate No.:	IECEX DEK 24.0015X	Page 1 of 4	<u>Certificate history:</u> Issue 0 (2024-06-12)
Status:	Current	Issue No: 1	
Date of Issue:	2024-08-22		
Applicant:	RIKEN KEIKI Co., Ltd. 2-7-6, Azusawa, Itabashi-ku, Tokyo, 174-8744, Japan		
Equipment:	Gas detectors type SD-3 and GD-3		
Optional accessory:			
Type of Protection:	Ex d, Ex i, Ex op is		
Marking:	Ex db IIC T6...T4 Gb Ex db ia IIC T4 Gb Ex db [op is] IIC T4 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2024-08-22

1. This certificate and schedule may only be reproduced in full.
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 or use of this QR Code.



Certificate issued by:

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

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](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

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/DEK/ExTR24.0018/01](#)

Quality Assessment Reports:

[NL/DEK/QAR23.0010/01](#)

[NL/DEK/QAR23.0011/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The gas detectors type SD-3 and GD-3 are stationary, continuous-monitoring detectors which operate in accordance with two detection principles (diffusion and suction) and six detection methods (non-dispersive infrared absorption method, solid sensor semi-conductor, catalytic combustion method, hot wire type semiconductor method, thermal conductivity method and potentiostatic electrolysis method).

They consist of flameproof enclosures with included sensor unit which can be either intrinsically safe (EC barrier) or flameproof with or without inherently safe optical radiation source.

Remote sensor head RIP models include a heater and optical radiation source mounted inside a flameproof enclosure.

Equipment contains the connection terminals for field connection and is provided with threaded holes M25, NPT ½" or NPT ¾" intended for Ex certified threaded entry devices.

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

For more information about Type designation, Thermal data and Electrical data see Annex 1.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment with glass window plate must only be placed in areas with low risk of mechanical danger.
2. Refer to manufacturer's instructions for ambient temperature and T-class.
3. The flameproof joints are not intended to be repaired.
4. The manufacturer's instructions provide guidance for the user to minimize the risk from electrostatic discharge. Maximum capacitance of 6 nF can occur.
5. If the surge protection device are attached to the flameproof enclosure it shall be provided with a high strength locking compound on the mounting thread.
6. The property class of (M5) fastening screws used for fixing of the parts of the sensor head flameproof enclosure of "RIP" models specified by the manufacturer is A4-70.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Minor constructional change.

Annex:

[228993500-Annex 1 to ExTR24.0018.01.pdf](#)