



# 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.: **IECEX DEK 16.0005X** Page 1 of 4 [Certificate history:](#)  
Status: **Current** Issue No: 2 [Issue 1 \(2017-06-22\)](#)  
[Issue 0 \(2016-07-19\)](#)  
Date of Issue: 2020-07-07  
Applicant: **RIKEN KEIKI Co., Ltd.**  
2-7-6, Azusawa,  
Itabashi-ku,  
Tokyo, 174-8744,  
**Japan**  
Equipment: **Gas detector Model SDWL-1EC, SDWL-1DEC, SDWL-1OX, SDWL-1DOX, SDWL-1RI, SDWL-1DRI and  
Repeater Model RTWL-1**  
Optional accessory:  
Type of Protection: **Ex ia**  
Marking: **Ex ia IIC T4 Ga**

Approved for issue on behalf of the IECEx  
Certification Body:

**R. Schuller**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

2020-07-07

1. This certificate and schedule may only be reproduced in full.
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**Meander 1051**  
**6825 MJ Arnhem**  
**Netherlands**





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Certificate No.: **IECEX DEK 16.0005X**

Page 2 of 4

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

Additional  
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 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

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/DEK/ExTR16.0008/02](#)

Quality Assessment Report:

[NO/PRE/QAR19.0018/01](#)



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Certificate No.: **IECEx DEK 16.0005X**

Page 3 of 4

Date of issue: 2020-07-07

Issue No: 2

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Gas detector Models SDWL-1EC, SDWL-1DEC, SDWL-1OX, SDWL-1DOX, SDWL-1RI and SDWL-1DRI are fixed-type gas monitors with wireless communication function designed to provide continuous exposure monitoring of toxic gas, oxygen (O<sub>2</sub>) and flammable gas by diffusion sampling method. The reading of gas detected or the status information of the equipment is indicated on the front LCD display, or sent to the high-order system by wireless communication. The Repeater Model RTWL-1 is a fixed-type repeater with wireless communication function and no function of gas measurement. An optional antenna cable is available for the Gas detector or the Repeater.

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

## **Additional information**

The performance of the Gas detector Models SDWL-1EC, SDWL-1DEC, SDWL-1OX, SDWL-1DOX, SDWL-1RI and SDWL-1DRI, as safety devices, are not covered by this certificate.

## **Electrical data**

Supply: Replaceable battery pack type RK9915, which includes two series-connected lithium-thionyl chloride batteries, model TL-5930 manufactured by TADIRAN.

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

Because a part of the antenna is made of plastic, if it is mounted in an area where the use of EPL Ga equipment and group IIC is required, precautions have to be taken to avoid electrostatic charge.

Because the enclosure is made of aluminium, if it is mounted in an area where the use of EPL Ga equipment is required, it must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.



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Certificate No.: **IECEX DEK 16.0005X**

Page 4 of 4

Date of issue: 2020-07-07

Issue No: 2

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- addition of the manufacturing location
- evaluation per IEC 60079-0: 2017 (ed.7.0)