



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 12.0058X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 3 [Issue 2 \(2019-12-13\)](#)
Date of Issue: 2020-07-07 [Issue 1 \(2017-04-25\)](#)
[Issue 0 \(2014-08-08\)](#)
Applicant: **RIKEN KEIKI Co., Ltd.**
2-7-6, Azusawa,
Itabashi-ku,
Tokyo, 174-8744,
Japan
Equipment: **Calorimeter, Type OHC-800 and Refractive-index Meter, Type FI-900**
Optional accessory:
Type of Protection: **Ex db**
Marking: **Ex db IIB + H₂ T4 Gb**

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.
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

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 60079-1:2014-06 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/DEK/ExTR12.0060/03](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Calorimeter, Type OHC-800 and Refractive-index Meter, Type FI-900 analyses gasses.

The aluminium enclosure in type of protection flameproof enclosures "d" contains sensors, electronics, display and is provided with cable glands and blanking plugs.

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

Process gas data

Process gas includes the gas to be analysed and the reference gas

Temperature range: -20 °C to +60 °C

Pressure range: 80 kPa to 110 kPa absolute

Electrical data

Supply voltage: 100 Vac 95 mA to 240 Vac 70 mA or 24 Vdc 190 mA

Analogue Output: 4 - 20 mA, max 24 Vdc

Digital communication: RS485

Contact output: 30 Vdc, max 2 A or 240 Vac, max 1 A

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Repair of the flameproof enclosure is not allowed.
- Fasteners have property class A2-70.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Assessed per IEC 60079-0 : 2017
2. Addition of a manufacturing location