



# 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 24.0011** Page 1 of 4 [Certificate history:](#)  
Status: **Current** Issue No: 1 [Issue 0 \(2024-06-25\)](#)  
Date of Issue: 2024-10-04  
Applicant: **RIKEN KEIKI Co., Ltd**  
2-7-6, Azusawa  
Itabashi-ku  
Tokyo 174-8744  
**Japan**  
Equipment: **Portable Gas Monitor (Interferometer) FI-8000**  
Optional accessory:  
Type of Protection: **Ex i**  
Marking: **Ex ia IIC T4...T3 Ga**

Approved for issue on behalf of the IECEx  
Certification Body:

**R. Schuller**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

2024-10-04

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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**

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/ExTR24.0014/01](#)

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 Portable Gas Monitor Model FI-8000 is an optical interferometer designed to measure gas concentration or calorific value of flammable gases in hazardous areas. There are two ways of suctioning air; manual suction using a rubber bulb and automatic suction using an internal micro pump.

Model FI-8000 is combined with Battery Unit Model BUD-8000 or Model BUL-8000. Model BUD-8000 includes primary batteries and Model BUL-8000 includes secondary Li-ion battery. Replacement or charging of Battery Unit can be performed by end-users and is only allowed in non-hazardous areas.

For the temperature class, T4 is applied when combined with Model BUL-8000 or with Model BUD-8000 including batteries of LR6T(JE), Toshiba. T3 is applied when combined with Model BUD-8000 including batteries of MN1500, Duracell.

Ambient temperature range -20 °C to +50 °C

Ambient temperature range during charge 0 °C to +40 °C

## **Additional information**

The performance of the Portable Gas Monitor Model FI-8000, as a safety device, is not covered by this certificate.

## **Electrical data**

Supply: Battery Unit Model BUD-8000 with three series connected primary batteries, or Rechargeable Battery Unit Model BUL-8000.

Non-replaceable primary battery for backup.

Refer to manufacturer's instructions for the permitted battery types.

## **SPECIFIC CONDITIONS OF USE: NO**



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

Minor constructional changes