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 24.0016X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2024-04-15)
Date of Issue:	2025-03-05		
Applicant:	**RIKEN KEIKI Co., Ltd.** 2-7-6 Azusawa, Itabashi-ku Tokyo 174-8744 **Japan**		
Equipment:	**Portable gas detector, type GX-Force**		
Optional accessory:			
Type of Protection:	**Ex d, Ex i**		
Marking:	Ex da ia IIC T4 Ga, (with catalytic gas sensor) Ex ia IIC T4 Ga, (without catalytic gas sensor)		

Approved for issue on behalf of the IECEx Certification Body:	**R. Schuller**
Position:	**Certification Manager**
Signature: (for printed version)	
Date: (for printed version)	2025-03-05

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

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/ExTR24.0019/01

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:

GX-Force is an “Ex ia” portable suction type gas detector which can measure different gases. For gas sensors, electrochemical type and catalytic type are used. The electrochemical type sensor detects gases as listed in type designation. The catalytic type sensor detects flammable gases.

Rechargeable temperature range is between +10 °C and +40 °C.
Ambient temperature range is between -20 °C and +60 °C.

Type designation: GX-Force

Different gas sensors are used as listed below:
Model ESR-A1DP: measures CO/H2S (electrochemical principle)
Model ESR-X13P: measures O2 (electrochemical principle)
Model NCR-6309: measures flammables (catalytic)
Model ESR-A1CP: measures CO (electrochemical principle)
Model ESR-A13P: measures CO (electrochemical principle)
Model ESR-A13i: measures H2S (electrochemical principle)
Model ESR-A13D: measures SO2, HCN, NO2 (electrochemical principle)
Model ESR-A13D2: measures PH3 (electrochemical principle)
Model ESR-B134: measures NH3 (electrochemical principle)

Electrical data

Non-user-replaceable Battery powered.
Nominal voltage: 3.6 V
Maximum open circuit voltage: 4.2 V

Charging circuit:
Charging shall be done in a non-hazardous location by use of a charger exclusively specified for it.
U_m = 6.0 V (SELV circuit).

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The flameproof joints are not intended to be repaired.
2. When using the product in hazardous areas, take the precautions as listed in safety instructions to safeguard against static electricity hazards.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
- Minor constructional change