



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 RISE 24.0004X** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-06-10

Applicant: **INFICON AB**
Box 76
SE-581 02 Linköping
Sweden

Equipment: **Hydrogen Leak Detector type Extrima**

Optional accessory:

Type of Protection: **Intrinsic safety "ia"**

Marking: Ex ia IIC T3 Ga
Ta: -20 °C to +50 °C

Approved for issue on behalf of the IECEx
Certification Body:

Hussni Al-Farra

Position:

ATEX & IECEx Inspection Engineer

Signature:
(for printed version)

Date:
(for printed version)

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:

RISE Research Institutes of Sweden AB
Box 857
SE-501 15 Borås
Sweden





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Certificate No.: **IECEX RISE 24.0004X**

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Date of issue: 2024-06-10

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Manufacturer: **INFICON AB**
Box 76
SE-581 02 Linköping
Sweden

Manufacturing
locations:

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 Reports:

[GB/CSAE/ExTR23.0045/00](#)
[GB/SIR/ExTR10.0252/00](#)

[GB/SIR/ExTR07.0085/00](#)
[GB/SIR/ExTR12.0063/00](#)

[GB/SIR/ExTR09.0206/01](#)
[GB/SIR/ExTR19.0092/00](#)

Quality Assessment Report:

[SE/SP/QAR07.0002/14](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The detector is a hand held device used to detect hydrogen leaks and is powered by a rechargeable Lithium ion battery. The device consists of a main unit interconnected by a pluggable cable to a PX50 series probe unit.

The housing of the main unit is made from aluminium which is anodized and protected by conductive rubber face seals fitted to the front and rear panels. The side panels and corners of the enclosure are fitted with protective rubber ribs. The back panel has a Gortex seal and a socket intended to be used outside hazardous areas, for connecting to the battery charger/barcode reader. The battery charger has the following maximum parameters, 12.6 V, 770 mA.

The probe has a conductive plastic enclosure and a nozzle which varies in length and type. A hydrogen sensor fits inside the nozzle. The probe is fully encapsulated, however, a switch, two LEDs and the hydrogen sensor are located outside the encapsulation.

The detector has an ingress protection rating of IP67.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Specific Conditions of Use

The following Specific Conditions of Use are applicable, with additional condition in bold:

1. As aluminium is used at the accessible surface of this equipment, in the event of rare incidents, ignition sources due to impact and friction sparks could occur. This shall be considered when the Extrima® Hydrogen Leak Detector is being used in locations that specifically require group II, category 1G equipment.
2. **Not suitable for acetylene / ethylene (welding gas) applications.** Product has exposed copper alloy component.

Conditions of Manufacture

The following conditions of manufacture remain applicable:

1. The permitted battery pack is constructed from 3 series connected SAFT type MP174865IS or type MP174865 or type SAFT MP 174565 is Lithium ion rechargeable cells all encapsulated in Wacker Elastosil RT675.
2. The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.



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Additional information:

This certificate replaces the previous IECEx certificate IECEx SP 07.0002X.

It is based on the QAR SE/SP/QAR07.0002/14 which covers the ExTR: GB/CSAE/ExTR23.0045/00, associated with EU-Type Examination Certificate: Sira 07ATEX2117X issue 8

Details of changes and amendments introduced in the ExTR GB/CSAE/ExTR23.0045/00:

- Assessment of compliance relevant to the new standards' editions (IEC 60079-0:2017 Ed 7 and IEC 60079-11:2011 Ed 6.)
- EN 60079-26: 2004 was removed as it is no longer required. The markings were updated accordingly and the Specific Condition of Use were amended to recognise the new standard.
- Adding following text to "Conditions for safe use" in manual: "Not suitable for acetylene / ethylene (welding gas) applications".