



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 24.0003X** 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: **Gasdetector type IRwin SX***

Optional accessory:

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

Marking: **Ex ia IIC T3 Ga**

Rated ambient temperature range (°C): $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$
Rated service temperature range (°C) for Ex Components: $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$

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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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/BAS/ExTR16.0156/00](#)
[GB/BAS/ExTR19.0319/00](#)

[GB/BAS/ExTR16.0156/01](#)
[GB/BAS/ExTR22.0049/00](#)

[GB/BAS/ExTR16.0319/00](#)
[GB/SGS/ExTR24.0080/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The IRwin SX* is a portable battery powered gas detector intended for detection of various gas types, dependent upon variant, and is fitted with internal pumps for sampling via the hand probe. Measurements are shown via the integrated LCD screen and are additionally stored for later retrieval or may be transmitted via a Bluetooth connection.

The equipment consists of a PCB featuring numerous components, an LCD screen with accompanying buttons for interface purposes, secondary lithium-ion cells with small solenoids and DC pumps for gas sampling all housed within a static dissipative plastic enclosure.

The hand-probe is connected to the sample inlet connector whilst a charger/serial port connector allows for the internal batteries to be recharged or for data retrieval. The charger/serial port is not used in the hazardous area.

The IRwin SX* models covered by this report are as follows:

- IRwin SX CH4
- IRwin SXT As SX + O2, H2S, CO
- IRwin SXG As SX + gas chromatograph
- IRwin SXGT As SXT + gas chromatograph

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Battery charging and data transfer may only be performed in the non-hazardous area. Only the Certified IRwin Charging Adaptor (P/N-580-604) may be connected to the IRwin SX* for battery charging or data transfer.
2. The Irwin SX* must not be used in any environment that may expose the equipment to acetylene



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Additional information:

This certificate replaces the IECEx Certificate IECEx SP 16.0001X.

It is based on the QAR SE/SP/QAR07.0002/14 which covers the ExTR GB/SGS/ExTR24.0080/00, associated with EU-Type Examination Certificate Baseefa16ATEX0034X issue 4. Also, it covers the ExTR GB/BAS/ExTR22.0049/00 associated with Baseefa16ATEX0034X issue 3.

Details of changes and amendments introduced in the ExTR GB/SGS/ExTR24.0080/00:

- Assessment of compliance relevant to the new standards' editions (IEC 60079-0:2017 Ed 7 and IEC 60079-11:2011 Ed 6.)
- Alternative gas sensors
- Changes to the charging adaptor
- Changes to the pump motor winding
- Minor changes to the main PCB
- Introduction of a backup power adaptor

Details of changes and amendments introduced in the ExTR GB/BAS/ExTR22.0049/00:

- Assessment of compliance relevant to the new standards' editions (IEC 60079-0:2017 Ed 7 and IEC 60079-11:2011 Ed 6.)
- Alternative enclosure material