



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SP 16.0001X

Issue No: 1

Certificate history:

Issue No. 1 (2017-06-15)

Issue No. 0 (2016-08-22)

Status: **Current**

Page 1 of 4

Date of Issue: **2017-06-15**

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

*Approved for issue on behalf of the IECEx
Certification Body:*

Peter Bremer

Position:

Certification Officer

*Signature:
(for printed version)*

Date:

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 the [Official IECEx Website](#).

Certificate issued by:

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





IECEX Certificate of Conformity

Certificate No: IECEX SP 16.0001X

Issue No: 1

Date of Issue: 2017-06-15

Page 2 of 4

Manufacturer: **Inficon AB**
Westmansgatan 49
SE-582 16 Linköping
Sweden

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*This Certificate **does not** indicate compliance with electrical 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:

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

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

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

Quality Assessment Report:

[SE/SP/QAR07.0002/07](#)



IECEx Certificate of Conformity

Certificate No: IECEx SP 16.0001X

Issue No: 1

Date of Issue: 2017-06-15

Page 3 of 4

Schedule

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 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. 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 certificate are as follows:

IRwin SX CH₄
IRwin SX 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 via cable 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 the battery charging or data transfer.



IECEX Certificate of Conformity

Certificate No: IECEx SP 16.0001X

Issue No: 1

Date of Issue: 2017-06-15

Page 4 of 4

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

Variation for CoC issue 1

The certificate allows an alternative design with a changed safety component (to allow values ≥ 1 k Ω instead of 1 k Ω for resistor R244) and with an alternative encapsulant for the LCD, according to the ExTR: GB/BAS/ExTR16.0319/00.

A new ExTR version 01: GB/BAS/ExTR16.0156/01, has been added for the certificate. This version differs from ExTR version 00 (GB/BAS/ExTR16.0156/00), by additional information/text added to the section "A.2 Spark ignition considerations".

The "Specific conditions of use" above, is slightly amended to clarify that the data transfer referred to, relates to data transfer via cable.

SP Technical Research Institute of Sweden, has changed its name to: RISE Research Institutes of Sweden AB. The certificate has been updated with respect to this.