


UK-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

- 3 UK-Type Examination Certificate Number: **BAS21UKEX0575X - Issue 1**
- 4 Product: **IRwin SX***
- 5 Manufacturer: **Inficon AB**
- 6 Address: **Box 76, 581 02 Linköping, Sweden**
- 7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 SGS United Kingdom Ltd. (formerly SGS Baseefa Ltd.), Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.
- 8.1 The BAS prefix to the Certificate Number indicates that the certificate was issued by SGS Baseefa Ltd. prior to the name change to SGS United Kingdom Ltd. Such certificates remain valid with their original number. (Delete row if not needed)
- The examination and test results are recorded in a confidential report identified in the revision table at item 20.
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-11:2012
- except in respect of those requirements listed at item 18 of the Schedule.
- 10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- 11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12 The marking of the product shall include the following:

 **II 1 G Ex ia IIC T3 Ga (-20°C ≤ T_a ≤ +50°C)**

SGS Customer Reference No. **7324**

Project File No. **23/0512**

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P OATES
CERTIFICATION MANAGER
On behalf of SGS United Kingdom Limited

13 Schedule

14 Certificate Number BAS21UKEX0575X - Issue 1

15 Description of Product

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 certificate are as follows:

IRwin SX	CH ₄
IRwin SXT	As SX + O ₂ , H ₂ S, CO
IRwin SXG	As SX + gas chromatograph
IRwin SXGT	As SXT + gas chromatograph

16 Report Number

See Item 20 – Certificate History

17 Specific Conditions of Use

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.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject	Compliance
13	LVD type requirements	Manufacturer responsibility
14	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
21 (1)	External effects	User/Installer responsibility
21 (2)	Aggressive substances, etc.	User/Installer responsibility

19 Drawings and Documents

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
5559	1 & 2	B	22-03-14	Plastic Housing, Front
5560	1 of 1	B	22-03-14	Plastic Housing, Back
8994-1	1 of 1	A	21-09-29	IRwin Labels



20 **Certificate History**

Certificate No.	Date	Comments
BAS21UKEX0575X Issue 0	14 March 2022	Prime Certificate Report Number: GB/BAS/ExTR22.0049/00 Project Number: 21/0370 Original issue of the certificate
BAS21UKEX0575X Issue 1	21 May 2024	To permit minor electrical and mechanical changes, including introducing a Backup Power adaptor, changes to the Certified IRwin Charging Adaptor and to introduce alternative gas sensor types. Report Number: GB/SGS/ExTR24.0080/00 Project Number: 23/0512.
For drawings applicable to each issue, see original of that issue.		