

EU - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- 3 EU - Type Examination Certificate Number: **Baseefa16ATEX0034X – Issue 4**
- 4 Product: **IRwin SX***
- 5 Manufacturer: **Inficon AB**
- 6 Address: **Box 76, 581 02 Linköping, Sweden**
- 7 This re-issued certificate extends EU Type Examination Certificate No. Baseefa16ATEX0034X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- 8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.
- 8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.
- The examination and test results are recorded in confidential Report No. **See Certificate History**
- 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 EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive 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 Fimko Oy Customer Reference No. **7324**

Project File No. **23/0512**

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13 **Schedule**

14 **Certificate Number Baseefa16ATEX0034X – Issue 4**

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 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:

Clause	Subject	Compliance
1.2.7	LVD type requirements	Manufacturer responsibility
1.2.8	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
1.4.1	External effects	User/Installer responsibility
1.4.2	Aggressive substances, etc.	User/Installer responsibility

19 **Drawings and Documents**

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
5558-3	1 – 6	A6	24-04-26	Schematic, Charging Adaptor
10249-1	1 of 1	A3	24-03-21	Bill of Materials, Backup Power Adaptor
10250-1	1 – 2	A3	24-04-25	PCB, Backup Power Adaptor
10251-1	1 of 1	A6	23-12-12	Bill of Materials, Charging Adaptor 580-606
10253-1	1 - 2	A6	24-04-25	PCB, Charging Adaptor
10254-1	1 of 1	A6	23-12-12	Bill of Materials, Charging Adaptor

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
5548	1 – 13	05C	16-04-28	IRwin Main PCB
5550	1 – 33	05C	16-05-11	Schematic, Main PCB
5551	1 & 2	05C	16-04-28	Assembly, Main PCB
5552	1 – 4	05E	10-13-16	Bill of Materials, Main PCB
5553	1 of 1	1	16-02-08	PCB Specification
5557	1 – 3	4	19-10-23	Encapsulation details
5558	1 of 1	01C	16-05-02	Schematic, Charging Adaptor
5559	1 & 2	B	22-03-14	Plastic Housing, Front
5560	1 of 1	B	22-03-14	Plastic Housing, Back
5562	1 of 1	2	2016-05-06	Bill of Materials, Charging Adaptor
5563	1 of 1	A	16-01-28	Front Window
5567	1 of 1	A	16-03-08	IRwin Labels
5574	1 of 1	1	16-03-16	General Assembly
5589	1 & 2	1	16-03-22	Bill of Materials, IRwin
5591 581-210	1 of 1	B	16-04-14	IRwin Charging Adaptor label
5601	1 of 1	01C	2016-05-02	PCB, Charging Adaptor
5654	1 – 6	1	16-05-11	LCD
5655	1 of 1	A	16-05-11	IRwin Clearances
8994-1	1 of 1	A	21-09-29	IRwin Labels

20 Certificate History

Certificate No.	Date	Comments
Baseefa16ATEX0034X	3 December 2003	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2012+A11:2013 & EN 60079-11:2012 is documented in Test Report No. GB/BAS/ExTR16.0156/00. Project File No. 15/0849.
Baseefa16ATEX0034X Issue 1	2 November 2016	To permit minor electrical and mechanical changes. Test Report No. GB/BAS/ExTR16.0319/00. Project File No. 16/0776.
Baseefa16ATEX0034X Issue 2	26 November 2019	To permit the use of an alternative encapsulant and to correct the issue date of drawing 5655. Test Report No. GB/BAS/ExTR19.0319/00. Project File No. 19/0595.
Baseefa16ATEX0034X Issue 3	14 March 2022	To permit the use of an alternative enclosure material and to confirm that the equipment meets the requirements of EN IEC 60079-0:2018; a specific condition of use relating to acetylene now applies. Test Report No. GB/BAS/ExTR22.0049/00. Project File No. 21/0370.
Baseefa16ATEX0034X Issue 4	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. Test Report No. GB/SGS/ExTR24.0080/00. Project File No. 23/0512.
For drawings applicable to each issue, see original of that issue.		