

(1) EU-TYPE EXAMINATION CERTIFICATE



(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number

TÜV 16 ATEX 7822 X

Issue: 00

(4) Equipment: **Portable gas detector type IRwin SX****

(5) Manufacturer: **INFICON AB**

(6) Address: **PO Box 76,
581 02 Linköping, Sweden**

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The certification body for explosion protection of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports 557 / Ex 7822.00 / 16 and 968/FSP 1342.00/16.

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN 60079-0:2012
EN 50271:2010**

EN 60079-29-1:2007

EN 50104:2010

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.



TÜV Rheinland certification body for explosion protection

Cologne, 17.01.2017

Dipl.-Ing. Klauspeter Graff

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This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln.
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(13)

Annex

(14)

EU-Type Examination Certificate

TÜV 16 ATEX 7822 X

Issue: 00

(15)

Description of equipment

15.1 Equipment and type:

Portable gas detector type IRwin SX**

The 4 device versions are suitable for the measurement of different gases, as well as for use in the applications listed in the following:

- IRwin SX - Above ground verification, Bar Hole, Confined Space, House, Gas purity, Warning Ex
- IRwin SXG - Above ground verification, Bar Hole, Confined Space, House, Gas purity, Warning Ex, Ethane analysis
- IRwin SXT - Above ground verification, Bar Hole, Confined Space, House, Gas purity, Warning Ex, Warning ExTox
- IRwin SXGT - Above ground verification, Bar Hole, Confined Space, House, Gas purity, Warning Ex, Ethane analysis, Warning ExTox

15.2 Description

The device is a portable leak detector for gas pipeline network inspection. The tested versions of the detector can measure following gases: Methane (CH₄), Propane (C₃H₈), natural gas or oxygen (O₂).

The portable gas detector is a battery operated and portable/ handheld aspirated system with integral sensor for gas detection. The device is used for professional use in residential and business areas. Use requires the necessary knowledge of gas pipeline network inspection.

There are three probes available for the device:

- For searching for gas on fixed surfaces, use the carpet probe. Pull or push the carpet probe over the floor.
- For searching for gas at particular points, use the bell probe.
- The hand probe is used for searching textures on the house for gas, such as windows or external pipes. Use the hand probe as such, or combine with the probe rod and the carpet probe or the bell probe.

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15.3 Technical Data

Name	IRwin SX	IRwin SXT	IRwin SXG	IRwin SXGT
Power input	4A	4A	4A	4A
Memory capacity for measured	64 MB	64 MB	64 MB	64 MB
Protection	IP54	IP54	IP54	IP54
Electronic interfaces	Bluetooth	Bluetooth	Bluetooth	Bluetooth
Operational volt- age	12VDC +/- 5%	12VDC +/- 5%	12VDC +/- 5%	12VDC +/- 5%
Battery operating time	8 has verified during certifica- tion, typical value 9 h	8 has verified during certifica- tion, typical value 9 h	8 has verified during certifica- tion, typical value 9 h	8 has verified during certifica- tion, typical value 9 h
Battery charging time	4 h from empty until full charge (3 h for quick charging). 1 h loading time produces 3.25 h operation (4 h	4 h from empty until full charge (3 h for quick charging). 1 h loading time produces 3.25 h operation (4 h	4 h from empty until full charge (3 h for quick charging). 1 h loading time produces 3.25 h operation (4 h	4 h from empty until full charge (3 h for quick charging). 1 h loading time produces 3.25 h operation (4 h
Battery	Lithium-Ion battery	Lithium-Ion battery	Lithium-Ion battery	Lithium-Ion battery

Ambient conditions

Max. altitude above sea level	2000 m
Ambient temperature range	-15 °C up to +40 °C
Pressure range	80kPa to 120kPa
Max. relative humidity	95% (non-condensing)

(16) Test report no. 557 / Ex 7822.00 / 16 and 968/FSP 1342.00/16

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(17) Special conditions for safe use

1. For use in explosive atmospheres, the special conditions of use listed in EU-Type Examination certificate no. Baseefa16ATEX0034X have to be observed.
2. The tested and qualified ambient temperature range of the portable gas detector is $-15\text{ °C} \leq T_a \leq +40\text{ °C}$.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standards.

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