



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 FTZU 16.0011X	Issue No: 1	Certificate history: Issue No. 1 (2017-01-18) Issue No. 0 (2016-03-31)
Status:	Current	Page 1 of 4	
Date of Issue:	2017-01-18		
Applicant:	Ion Science Ltd. The Way Fowlmere Cambridge SG8 7UJ United Kingdom		
Equipment:	VOC analyzer type FALCO 1.1 and FALCO 1.2		
Optional accessory:			
Type of Protection:	flameproof enclosure, intrinsic safety		
Marking:	Ex d ib IIC T4 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of Certification Body

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](http://www.iecex.com).

Certificate issued by:

Fyzikálně technický zkusební ústav
(Physical -Technical Testing Institute)
Pikartská 7
71607 Ostrava - Radvanice
Czech Republic





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Manufacturer: **Ion Science Ltd.**
The Way
Fowlmere
Cambridge
SG8 7UJ
United Kingdom

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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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:

[CZ/FTZU/ExTR16.0011/00](#) [CZ/FTZU/ExTR16.0011/01](#)

Quality Assessment Report:

[GB/BAS/QAR07.0023/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The subject of this certificate is VOC analyzer type FALCO which is manufactured in two versions. The version FALCO 1.1 doesn't contain a pump and version FALCO 1.2 contains a pump in sensor head of the equipment. The equipment comprises of main body (flameproof enclosure part, type of protection "d") and sensor head (type of protection "ib") which is screwed into the main body. The main body with sight glass type 8092WM-19 is certified as the empty flameproof enclosure, certificate IECEX SIR 08.0025U.

The main body houses the IS board, control board, display board and control panel board. The sensor head houses the sensor board, MiniPID sensor, MiniPID heater and optional pump. The connection between the main body and the sensor head is made using bushing type LBSM 16208/0,25EL, certificate IECEX EPS 11.0004X. Gas detection is performed only in the sensor head and measured values are then processed in the flameproof body.

The flameproof enclosure is equipped with 2 NPT 3" thread holes for installation of an appropriate certified Ex equipment cable gland and/or Ex blanking elements.

The performance tests of the equipment according to IEC 60079-29-1 is not a part of this certificate.

Rated ambient temperature range:

-40 °C ≤ Ta ≤ +50 °C ...type FALCO 1.1

-20 °C ≤ Ta ≤ +50 °C ...type FALCO 1.2

Technical specification:

Rated voltage: 8 VDC ± 40 VDC

Maximum input power: 8 W

CONDITIONS OF CERTIFICATION: YES as shown below:

- 1) The equipment shall be powered from SELV site.
- 2) - 40 °C ≤ Ta ≤ +50 °C for version FALCO 1.1.
- 3) - 20 °C ≤ Ta ≤ +50 °C for version FALCO 1.2.



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

Issue 1:

- Change of the product technical parameters.
 - Minor modification of internal facilities.
- The construction of the equipment remain unchanged except above mentioned.