



EC-Type Examination Certificate

- (1)
(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 94/9/EC)**

(3) EC-Type Examination Certificate Number:

FTZÚ 15 ATEX 0113X

(4) Equipment: **VOC analyzer type FALCO 1.1; FALCO 1.2**

(5) Manufacturer: **Ion Science Ltd.**

(6) Address: **The Way, Fowlmere, Cambs, SG8 7UJ, Great Britain**

(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°:

15/0113 dated 18.01.2016

(9) Compliance with Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012, EN 60079-1:2007, EN 60079-11:2012

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

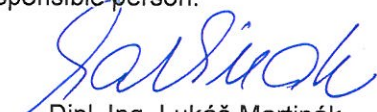
(11) This EC-Type Examination Certificate relates only to the design, examination and testing of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

 **II 2G Ex d ib IIC T4 Gb**

This EC-Type Examination Certificate is valid till: **07.01.2021**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: **18.01.2016**

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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 15 ATEX 0113X**

(15) Description of Equipment:

The subject of this certificate is the FALCO VOC analyser, which is manufactured in two versions. Version 1.1 does not contain a pump and version 1.2 contains a pump in the sensor head of the equipment. The equipment comprises of a main box, which is a flameproof enclosure protection type “d” and a sensor head protection type “ib”, which is screwed into the main flameproof box. The main flameproof box with a viewing glass type 8092WM-19 is certified as an empty flameproof enclosure; certificate SIRA 08ATEX1082U.

The main flameproof enclosure 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 flameproof enclosure and the sensor head is made using bushing type LBSM 16208/0,25EL; certificate EPS 11 ATEX 1342X. The sensor head is manufactured in two versions one with a pump and one without. Gas detection is performed only in the sensor head and measured values are then processed in the flameproof enclosure.

The flameproof enclosure has 2x NPT ¼” thread holes for fitting appropriate certified Ex cable glands and/or Ex blanking elements.

The measuring functions according to annex II paragraph 1.5.5 of the directive 94/9/EC is not matter for this EC-type examination.

Technical specification:

Ambient temperature: -40 °C ≤ Ta ≤ +50 °C ... type FALCO 1.1
-20 °C ≤ Ta ≤ +50 °C ... type FALCO 1.2

Rated voltage: 8 VDC ÷ 40 VDC

Maximum input power: 2 W

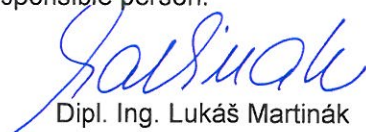
Outputs: Current loop 4-20 mA

Serial communication ModBus

Two customizable switching contacts

(16) Report No.: 15/0113

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 15 ATEX 0113X**

(17) Special conditions for safe use:

17.1 Ambient temperature range: $-40\text{ °C} \leq T_a \leq +50\text{ °C}$ for version FALCO 1.1.
 $-20\text{ °C} \leq T_a \leq +50\text{ °C}$ for version FALCO 1.2.

17.2 The equipment shall be powered from SELV site.

(18) Essential Health and Safety Requirements:

They are included in standards, which are mentioned in clause (9) of this certificate according which was equipment certified and in the documentation elaborated by manufacturer.

(19) List of Documentation:

Document No.:

User's manual V1.2

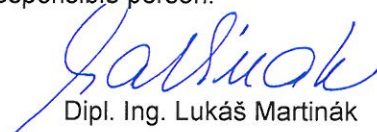
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Date:

18.1.2015

19.11.2015 / A

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



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