



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 14 ATEX 0172X

- (4) Equipment: **Benzene monitor type EWF1.1**
(5) Manufacturer: **Ion Science Ltd.**
(6) Address: **The Way, Fowlmere, Cambridge, UK.SG8 7UJ**

(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°:

14/0172 dated 06.11.2014

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

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

(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.

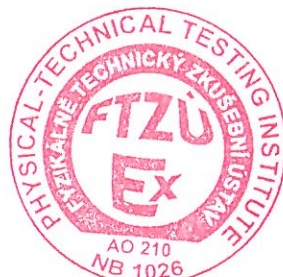
(12) The marking of the equipment or protective system shall include the following:

 **II 2G Ex d IIB+H2 T4 Gb**

This EC-Type Examination Certificate is valid till: **06.11.2019**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 06.11.2014

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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 14 ATEX 0172X**

(15) Description of Equipment:

Enclosures with breathing devices is separately certified as empty flame proof enclosure. certificate FTZÚ 14 ATEX 0021U.

Equipment is designed to detect benzene concentrations.

The benzene monitor type EWF1.1 is steel enclosure with Dural threaded cover with sight glass. Enclosure is equipped with three breathing devices which are intended for sampling, exhaust and for enclosure breathing.

Enclosure is equipped with two 3/4" NPT threaded holes. Appropriate certified Ex equipment cable glands for direct entry must be used.

Benzene monitor contains two heating systems, internal temperature regulation and separator temperature regulation.

The measuring function according to annex II paragraph 1.5.5 of the Directive 94/9/EC is not matter of this EC-Type Examination.

Technical specification:

Rated voltage: 19VDC ÷ 32VDC

Rated current: 4A ÷ 2,4A (Power consummation is dependent upon the temperature control systems.)

(16) Report No.: 14/0172

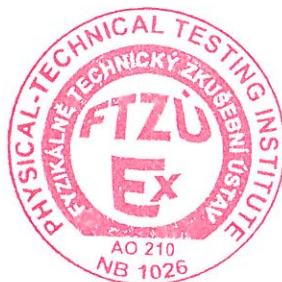
(17) Special conditions for safe use:

17.1 Ambient temperature range: $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$.

17.2 Verified values of the maximum gaps and minimum constructional length of flameproof joints of this enclosure are different from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



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Physical Technical Testing Institute
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(13)

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(14) **EC-Type Examination Certificate N° FTZÚ 14 ATEX 0172X**

(18) Essential Health and Safety Requirements:

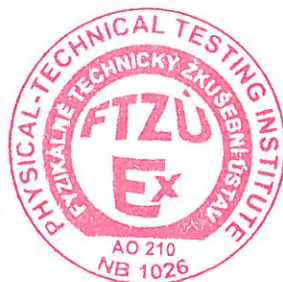
They are included in standards, which are mentioned in clause (9) of this certificate according which was equipment certified and in the documentation elaborated by manufacturer.

(19) List of Documentation:

<i>Document No.:</i>	<i>Date:</i>
875 Benzene Monitor MANUAL	10/2014
CERT0179 Rev.2	09.10.2014
CERT0176 Rev.2	09.10.2014
CERT0172_1	19.06.2014

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