



IECEX TEST REPORT COVER

ExTR Reference Number	CZ/FTZÚ/ExTR 14.0030
ExTR Free Reference Number	CZ/FTZÚ/ExTR 14.0023
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Date of issue	20.11.2014
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Address	Pikartská 7, 716 07 Ostrava-Radvanice, Czech Republic
Ex Certification Body (ExCB)	Physical Technical Testing Institute, s.p
Address	Pikartská 7, 716 07 Ostrava-Radvanice, Czech Republic
Applicant's name	Ion Science Ltd.
Address	The Way, Fowlmere, Cambridge, UK.SG8 7UJ
Standards associated with this ExTR package.....	IEC 60079-0:2011, 6 th Edition IEC 60079-1:2007, 6 th Edition
Clauses considered	All
Test procedure	IECEX System
Test Report Form Number	ExTR Cover_5 (released 2014-01)
Test item description	Benzene monitor
Model/type reference.....	Type EWF 1.1
Code (e.g. Ex _ II_ T_).....	Ex d IIB+H2 T4 Gb
Rating	IP 65
All testing fully performed by ExTL staff at ExTL address above:	Yes

Instructions for Intended Use of ExTR Cover:

An ExTR Cover is the sole top-level document to associate together all other parts of an IECEx Test Report (ExTR) package. An ExTR package is comprised of an ExTR Cover and one or more associated ExTR documents (which may include Ex Test Reports, ExTR Addendums and ExTR of National Differences). All ExTR package documents are compiled and reviewed by the ExTL. The Issuing ExCB indicates final approval of the overall ExTR package on this ExTR Cover.

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Manufacturer's name.....: Ion Science Ltd.
 Address: The Way, Fowlmere, Cambridge, UK.SG8 7UJ
 Trademark:



Particulars: Test item vs. Test requirements

Classification of installation and use : (portable / stationary / hand-held)
 Ingress protection: IP65_
 Rated ambient temperature range (°C).....: $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
 Rated service temperature range (°C) for Ex Components: NA

General remarks:

The test results presented in this ExTR package relate only to the item or product tested.

- "(see Attachment #)" refers to additional information appended to the ExTR package.
- "(see appended table)" refers to a table appended to the ExTR package.
- Throughout this ExTR package, a point is used as the decimal separator.
- *Where the term "N/A" appears in any part of an ExTR package, it indicates that the associated issue was considered "Not applicable" to the involved evaluation.*
- *In accordance with IECEx 02, a Receiving ExCB may request a sample of the Ex equipment and copies of the documentation referred to in an ExTR Cover.*

The technical content of this ExTR package shall not be reproduced except in full without the written approval of the Issuing ExCB and ExTL.

Copy of Marking Plate:

EQUIP. 875 BENZENE MONITOR

TYPE: EWF1.1

KG:15

SER. No. XXXXXX/XX/XX

v: 19-32 VDC

A: 4-2.4

IP: 65

**CERTIFI. FTZÚ14 ATEX 0110X
IECEX FTZU 14.XXXX**



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

! DO NOT OPEN WHILE ENERGIZED !

DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

**Ion Science Ltd.
Cambridge
UK**



Note.

The information above will be included on a suitable plate, securely fastened to the equipment enclosure.

General product information:

Enclosures with breathing devices is separately certified as empty flame proof enclosure, certificate IECEx FTZU 14.0023U.

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. Enclosures 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 performance tests were not carried out according to the IEC 60079-29-1.

<p><u>Technical specification:</u></p> <p>Rated voltage 19VDC ÷ 32VDC</p> <p>Rated current: 4A ÷ 2,4A (Power consumption is dependent upon the temperature control systems)</p> <p>Details of change (applicable only when revising an existing ExTR package): NA</p>
<p>In accordance with OD 024, testing not fully performed by ExTL staff at the above ExTL address:</p> <p>NA</p>
<p>National differences considered as part of this evaluation, if any: NA</p>
<p>“Specific Conditions of Use” for Ex Equipment or “Schedule of Limitations” for Ex Components, if any:</p> <ol style="list-style-type: none"> 1 Ambient temperature range: $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$. 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.
<p>Routine tests, if any:</p> <p>NA – Enclosure is certified separately as component see IECEx 14.0023U</p>

<p>Manufacturer's Documents</p>
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Document No.:	Date:
875 Benzene Monitor MANUAL	10/2014
CERT0179 Rev.2	09.10.2014
CERT0176 Rev.2	09.10.2014
CERT0172_1	19.06.2014