



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 13.0025X

Issue No: 2

Certificate history:

Issue No. 2 (2018-04-23)

Status: **Current**

Issue No. 1 (2017-05-26)

Date of Issue: **2018-04-23**

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Issue No. 0 (2013-12-18)

Applicant: **MSA - The Safety Company**
1000 Cranberry Woods Drive
Cranberry Township, PA 16066
United States of America

Equipment: **Gas Detector Altair 2X**

Optional accessory:

Type of Protection: **Intrinsic safety**

Marking:

Ex ia IIC T4 Ga

*Approved for issue on behalf of the IECEx
Certification Body:*

Dipl. Ing. Martin Zámorský

Position:

Vice 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 zkušební ústav
(Physical -Technical Testing Institute)
Pikartská 7, 71607 Ostrava - Radvanice
Czech Republic**





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Manufacturer: **MSA - The Safety Company**
1000 Cranberry Woods Drive
Cranberry Township, PA 16066
United States of America

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 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 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*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/ExTR13.0025/00](#)

[CZ/FTZU/ExTR13.0025/01](#)

[CZ/FTZU/ExTR13.0025/02](#)

Quality Assessment Report:

[FR/INE/QAR08.0011/08](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The product Gas Detector Altair 2X is an intrinsically safe hand held portable toxic detector with LCD, audible and visual alarm and one push button. The equipment consists of one PCB with electronics and one battery inside of a plastic non-static dissipative enclosure. The power source is a single, user replaceable 3.6 V Lithium cell. The optical radiation output of the apparatus with respect to explosion protection is covered in this certificate based on Exception 1) to the scope of IEC 60079-28:2015.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1) The battery shall not be replaced in hazardous area.
- 2) There shall only be used batteries Saft LS17330 or EEMB ER17335 in the product.
- 3) The product enclosure includes accessible metal parts. The end user shall determine suitability in the specific application. The measured capacitance of the product on the item back clip is 40pF.
- 4) The performance tests of the product are not a subject of this certificate.



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

Details of change:

- 1) Minor change in the PCB.
- 2) Evaluation according to the newest standard IEC 60079-0:2017 Ed.7
- 3) Updating of approval documents and QAR