



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx UL 21.0030**

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Certificate history:

Status: **Current**

Issue No: 3

[Issue 2 \(2023-01-24\)](#)

[Issue 1 \(2022-05-16\)](#)

[Issue 0 \(2022-03-16\)](#)

Date of Issue: 2023-10-20

Applicant: **MSA - The Safety Company**  
1000 Cranberry Woods Dr  
Cranberry Township, PA 16066-5296  
**United States of America**

Equipment: **Multi-Gas Detector, Altair io4**

Optional accessory:

Type of Protection: **Flameproof "da", Intrinsic Safety "ia"**

Marking: Ex ia I Ma  
Ex da ia IIC T4 Ga  
-20°C ≤ Ta ≤ 55°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Katy A. Holdredge**

Position:

**Senior Staff Engineer**

Signature:  
(for printed version)

Date:  
(for printed version)

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**UL Solutions (US)**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
**United States of America**





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Manufacturer: **MSA - The Safety Company**  
1000 Cranberry Woods Dr  
Cranberry Township, PA 16066-5296  
**United States of America**

Manufacturing locations: **MSA Safety Pittsburgh Manufacturing, LLC**  
1000 Cranberry Woods Drive  
Cranberry Township, PA 16066  
**United States of America**

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 equipment 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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
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 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 Reports:

[US/UL/ExTR21.0030/00](#)  
[US/UL/ExTR21.0030/03](#)

[US/UL/ExTR21.0030/01](#)

[US/UL/ExTR21.0030/02](#)

Quality Assessment Report:

[FR/INE/QAR08.0011/13](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Model Altair io4 is a portable battery operated gas detector designed to detect up to 4 gases; combustible, oxygen, and a variety of toxic gases. The device provides visual and audible alarms when predetermined levels are reached. The apparatus can communicate wirelessly. These other devices are not covered as part of this investigation.

**Please see Annex for additional information.**

**SPECIFIC CONDITIONS OF USE: NO**



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

Issue 1: Changes minimum ambient from -40°C to -20°C and alternate battery and alternate components were added.

Issue 2: Adding Group I certification.

Issue 3: Change of components due to circuit change. In addition, adding alternate components to the design.

**Annex:**

[Annex to IECEx UL 21.0030 Issue 3.pdf](#)

