

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx UL 21.0030** Page 1 of 4

Issue No: 3 Status: Current

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:

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

Marking: Ex ia I Ma

> Ex da ia IIC T4 Ga -20°C ≤ Ta ≤ 55°C

Approved for issue on behalf of the IECEx Katy A. Holdredge

Certification Body:

Position: Senior Staff Engineer

Signature:

(for printed version)

(for printed version)

- This certificate and schedule may only be reproduced in full.
 This certificate is not transferable and remains the property of the issuing body.
 The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate history: Issue 2 (2023-01-24)

Issue 1 (2022-05-16) Issue 0 (2022-03-16)

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 MSA Safety Pittsburgh

locations: 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

dition.7.0

IEC 60079-1:2014 Edition:7.0

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

IEC 60079-11:2011

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/ExTR21.0030/01 US/UL/ExTR21.0030/02

US/UL/ExTR21.0030/03

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



Annex to Certificate No.:

IECEx UL 21.0030

Issue No.: 3

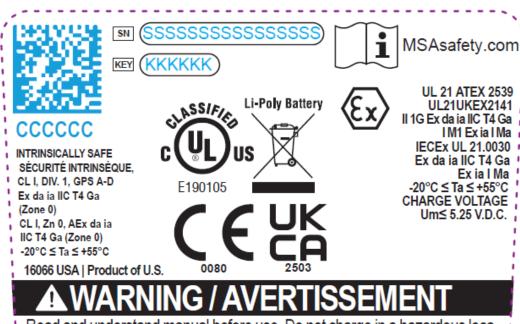
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PARAMETERS RELATING TO THE SAFETY

Um of 5.25VDC

MARKING

Marking has to be readable and indelible; it has to include the following indications:



Read and understand manual before use. Do not charge in a hazardous location. Misuse can result in ignition of flammable or ignitable atmospheres. Lisez et comprenez le mode d'emploi avant utilisation. Ne chargez pas dans une zone à risques. Une mauvaise utilisation risque de causer des atmosphères inflammables.