

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 23.2004**

Current Issue: 0

Date of Issue: 2024-01-10

Applicant: **MSA Innovation, LLC**
1000 Cranberry Woods Drive
Cranberry Township, PA 16066-5296
UNITED STATES OF AMERICA

Equipment: Multi-Gas Detector, Altair io4

Type of Explosion Protection: Flameproof "d", Intrinsic Safety "i"

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

*This certificate is granted subject to the requirements as set out in
Joint Accreditation System of Australia and New Zealand Publications
ANZEx System Rules 2020 & ANZEx Certified Equipment Scheme Rules 2021*

Signed for and on behalf of issuing body

Name & Position


Geoff Barnier
Principal Engineer - Certification

This certificate is not transferable and remains the property of the issuing body.

The status of this certificate can be confirmed through the database located at www.anzex.com.au

Certificate issued by:

Safety in Mines, Testing and Research Station
2 Robert Smith Street, REDBANK QLD 4301

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Manufacturer : **MSA-The Safety Company**
1000 Cranberry Woods Drive
Cranberry Township, PA 16066-5296
UNITED STATES OF AMERICA

**Additional
Manufacturing
Location(s):** **MSA Safety Pittsburgh Manufacturing, LLC**
1000 Cranberry Woods Drive
Cranberry Township, PA 16066-5296
UNITED STATES OF AMERICA

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 Ed 7.0** Explosive atmospheres - Part 0: Equipment - General requirements
- IEC 60079-1:2014 Ed 7.0** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
- IEC 60079-11:2011 Ed 6.0** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

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Schedule

Equipment Description:

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.

Electrical Ratings/Parameters

Um = 5.25 VDC

Specific Conditions of Use:

None

Conditions of Certification:

None

Additional Information:

1. The following batteries may be fitted to the equipment:
 - Molicel type ICP103450CA (Lithium ion)
 - Molicel type ICP103450DA (Lithium ion)
 - Panasonic type ML614S (Lithium ion)
 - Panasonic type UF10345P (Lithium ion)
2. The following separately certified sensors may be fitted to the equipment:
 - Combustible sensor type XCell Ex (IECEX FTZU 09.0023U-3)
 - Electrochemical sensor types XCell TOXIC, XCell Oxygen (IECEX FTZU 09.0024U-4)

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Register of Issues and Variations

includes the current issue

Issue 0 dated 2024-01-10

- Original issue.

Standards relevant for this issue:

IEC 60079-0:2017 Ed 7.0 Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-1:2014 Ed 7.0 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

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

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: US/UL/ExTR21.0030/00, US/UL/ExTR21.0030/01, US/UL/ExTR21.0030/02,
US/UL/ExTR21.0030/03; UL Solutions

QAR No. & Issuing CB: FR/INE/QAR08.0011/13; INERIS

File Reference: 230008Cert

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
US/UL/ExTR21.0030/00				
SK3098-1468	59	ALTAIR io4, Approval Drawing	0	1-5-2020
SK3098-1480	5	ALTAIR io4, Marking and Instructions	0	28-FEB-2022
US/UL/ExTR21.0030/01				
SK3098-1468	59	ALTAIR io4, Approval Drawing	1	4-29-2022
SK3098-1480	5	ALTAIR io4 Marking and Instructions	1	01-APR-2022
US/UL/ExTR21.0030/02				
SK3098-1468	59	ALTAIR io4, Approval Drawing	2	11-15-2022
SK3098-1480	5	ALTAIR io4 Marking and Instructions	2	29-SEP-2022
US/UL/ExTR21.0030/02				
SK3098-1468	60	ALTAIR io4, Approval Drawing	3	6-1-2023
10214969	2	LABEL, APPROVAL UL/CSA/IEC/ATEX, ALTAIR IO	5	01/03/24
10225569/04	8	Addendum A - Standards Compliance Certifications ALTAIR io 4 Gas Detection Wearable	-	-