

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: ANZEx 20.3008	Current Issue: 1	Date of Issue: 2024-04-04
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Applicant: MSA Innovation, LLC
1000 Cranberry Woods Drive
Cranberry Township PA 16066
USA

Equipment: Altair 4XR Multi-gas Detector

Type of Explosion Protection: Flameproof "da", Intrinsic safety "ia"

Explosion Protection Marking: With XCell Ex Sensor
Ex da ia IIC T3 Ga
Ex ia I Ma
Ta = -40°C to +60°C

Without XCell Ex Sensor
Ex ia IIC T3 Ga
Ex ia I Ma
Ta = -40°C to +60°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

04 April 2024

*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:

TestSafe Australia
919 Londonderry Road, Londonderry NSW 2753 Australia

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Manufacturer : MSA – The Safety Company
1000 Cranberry Woods Drive
Cranberry Township PA 16066
USA

Additional Manufacturing Location(s): None.

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** Explosive atmospheres Part 0: Equipment—General requirements
- IEC 60079-1:2014 Ed 7** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
- IEC 60079-11:2011 Ed 6** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
- IEC 60079-26:2014 Ed 3** Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

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 MSA ALTAIR® 4XR is a handheld, battery operated, Multi-gas Detector with Bluetooth capabilities (optional) that can measure between 1 and 4 gases using a combination of the following MSA XCell® Sensors: one catalytic-bead combustible cell, one oxygen electrochemical cell and one dual toxic electrochemical cell. The enclosure is rectangular in shape, includes an LCD display window, and is manufactured from a non-metallic material with an overmold. There is an external connection that is only used for charging the battery and shall only be connected when located in a non-hazardous location.

Powered by a rechargeable Lithium Ion Polymer Battery Cell, Sony model US503759A8H, rated 3.8 V (nominal), 1400 mAh (nominal). MSA assembly number 10083913, or rechargeable Lithium Ion Polymer Battery Cell, Inventus Model IP583548, rated 3.8 V (nominal), 1435mAh (nominal), MSA assembly number 10242458.

Performance temperature range: -20°C to +60°C as specified in Altair 4XR Addendum A manual 10175895.

Electrical Ratings/Parameters

None.

Specific Conditions of Use:

None.

Conditions of Certification:

Conditions of manufacture:

The Manufacturer shall comply with the following:

The ALTAIR 4XR incorporates previously certified sensors. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with this device. The manufacturer shall inform TestSafe Australia of any modifications to the device that may impinge upon the explosion safety design of the ALTAIR 4XR.

Additional Information:

None.

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Date of Issue: 2024-04-04

Register of Issues and Variations

includes the current issue

Issue 0 dated 2020-08-20

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: GB/SIR/ExTR16.0248/00, GB/SIR/ExTR16.0329/00,
GB/SIR/ExTR19.0123/00, GB/SIR/ExTR20.0090/00; SIRA Certification

QAR No. & Issuing CB: FR/INE/QAR08.0011/10; INERIS

File Reference: 2020/005924

Standards relevant for this issue:

IEC 60079-0:2011 Ed 6 Explosive atmospheres Part 0: Equipment—General requirements

IEC 60079-1:2014 Ed 7 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

IEC 60079-11:2011 Ed 6 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

IEC 60079-26:2014 Ed 3 Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
SK3098-1360	21	Altair 4XR CSA	3	2020-04-08
SK3025-1113	2	Artwork, Label, IEC, Approvals, Altair 4XR	5	2020-07-30

Issue 1 (current issue):

Variations Permitted by this Issue

1. New Li-Ion battery pack,
2. Change in temperature class from T4 to T3.
3. Change in label to show T3.
4. Minor change to PCB to accommodate selecting a different charging voltage.
5. Update approval standard from IEC 60079-0:2011 to IEC 60079-0:2017.

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: GB/SIR/ExTR23.0176/00; CSA Group

QAR No. & Issuing CB: FR/INE/QAR08.0011/14; INERIS

File Reference: 2023/017461

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Page(s)	Document Title	Revision	Date
SK3098-1360	27	*Altair 4XR CSA	6	2023-08-15
SK3025-1113	2	*Artwork, Label, IEC, Approvals, Altair 4XR	7	2024-03-07

Note: An "*" is added before the title of documents that are new or revised.