



# 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](http://www.iecex.com)

Certificate No.:	IECEX TSA 08.0013X	Issue No: 7	<u>Certificate history:</u>
Status:	<b>Current</b>	Page 1 of 4	Issue No. 7 (2018-02-05)
Date of Issue:	<b>2018-02-05</b>		Issue No. 6 (2017-09-07)
Applicant:	<b>MSA – The Safety Company</b> 1000 Cranberry Woods Drive Cranberry Township PA 16066 <b>United States of America</b>		Issue No. 5 (2016-07-19)
Equipment:	<b>Altair 4X Diffusion Multi-gas Detector</b>		Issue No. 4 (2012-08-03)
Optional accessory:			Issue No. 3 (2010-09-16)
Type of Protection:	<b>Flameproof "d", Intrinsic safety "ia"</b>		Issue No. 2 (2008-09-29)
Marking:	MSA Altair 4X Multi-gas Detector Ex ia I IP67 Ex ia da IIC T4 IP67 - When Combustible XCell Sensor is installed Ex ia IIC T4 IP67 - When Combustible XCell Sensor is not installed. IECEX TSA 08.0013X S/N: _____		Issue No. 1 (2008-07-08)
			Issue No. 0 (2008-03-12)

Approved for issue on behalf of the IECEx  
Certification Body:

Ujen Singh

Position:

Quality & Certification Manager

Signature:  
(for printed version)

Date:

05 FEBRUARY 2018.

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.

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  
**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 electrical 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:

- |   |   |
|---|---|
| <b>IEC 60079-0 : 2011</b><br>Edition:6.0    | Explosive atmospheres - Part 0: General requirements                              |
| <b>IEC 60079-1 : 2014-06</b><br>Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| <b>IEC 60079-11 : 2011</b><br>Edition:6.0   | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"     |

*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

AU/TSA/ExTR07.0040/01	AU/TSA/ExTR10.0009/00	AU/TSA/ExTR12.0034/00
AU/TSA/ExTR16.0015/00	AU/TSA/ExTR16.0015/01	CZ/FTZU/ExTR09.0023/02

#### Quality Assessment Report:

FR/INE/QAR08.0011/06



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Altair 4X Multi-gas Detector is a 4 Gas instrument. It contains XCell series toxic electrochemical cell (one or two sensors), one XCell combustible cell, and one XCell oxygen electrochemical cell. It measures 75 mm by 120 mm by 35 mm. The body is made of RTP 2099 EX 118617 B material. The display is a mono-colour LCD (Philips PCF8533 series).

The rechargeable battery is Lithium polymer (Sony battery) – one cell. The battery is encapsulated in a plastic container with soft polyurethane based encapsulant.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

Please refer to Annexe of the certificate.



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

There are no changes on the equipment. The Ex component XCell was updated the referenced ATEX standard EN 60079-0 and removed the referenced ATEX and IECEx encapsulation – m standards on Page 3 of 23, added revision history to box in upper right corner of Page 1, and deleted revision history Page 24.

**Annex:**

Annexe for IECEX TSA 08.0013X-7.pdf