



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

Certificate No.: **IECEX TSA 06.0031X** issue No.: **6**

Status: **Current**

Date of Issue: **2016-02-11** Page 1 of 4

Certificate history:
Issue No. 6 (2016-2-11)
Issue No. 5 (2012-8-9)
Issue No. 4 (2011-9-2)
Issue No. 3 (2008-12-16)
Issue No. 2 (2008-7-8)
Issue No. 1 (2007-1-9)

Applicant: **Mine Safety Appliances Company, LLC**
1000 Cranberry Woods Drive
Cranberry Township PA 16066
United States of America

Electrical Apparatus: **Altair Pro Portable Single Gas Detector**
Optional accessory:

Type of Protection: **Ex ia**

Marking: **MSA Altair Pro Gas Detector**
Ex ia IIC T4 (-20 °C < Ta < +50 °C)
IECEX TSA 06.0031X
Serial No: _____

Approved for issue on behalf of the IECEx
Certification Body: **Ujen Singh**

Position: **Quality and Certification Manager**

Signature:
(for printed version)

Date:

11 FEBRUARY 2016

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: **Mine Safety Appliances Company, LLC**
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:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

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

*This Certificate **does not** indicate compliance with 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/ExTR06.0042/00
AU/TSA/ExTR08.0066/00

AU/TSA/ExTR06.0042/01
AU/TSA/ExTR12.0037/00

AU/TSA/ExTR08.0026/00
AU/TSA/ExTR15.0029/00

Quality Assessment Report:

FR/INE/QAR08.0011/05



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The "Altair Pro" portable single gas detector is initially available in three gas models e.g. O₂, CO and H₂S. The O₂ model is called "Altair Pro O₂". The gas sensing cells are of the electro-chemical type. The instrument is powered by a replaceable CR2 lithium cell. The LCD display panel on the front displays an indication of the level of the detected gas. A push button allows users to select the information viewed on the LCD display. Audible and visual alarm indicators are located on the front of the apparatus, and an imbalanced motor produces an optional vibration alert when in alarm mode.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The lithium batteries of Panasonic CR-2PA/1B, Energizer CR2 EL1CR2BP, Varta CR2 6206 and Varta (Power One) CR2 CR15H270, 6206 can be used in the apparatus.
2. The maximum length of the remote sensor connecting cable in the "Altair Pro-R O₂" does not exceed 3.3 metres (10 feet).



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

Variations Permitted by Issue 6:

The applicant and manufacturer name was changed from Mine Safety Appliances Company to Mine Safety Appliances Company, LLC.

Updated standards to IEC 60079-0:2011 and IEC 60079-11:2011.



IECEX Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEX TSA 06.0031X	Issue No.:	6
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Drawing list pertaining to Issue 6 of this Certificate:

Drawing/Document Number:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
SK3098-1014	28	Altair Pro TestSafe	4	2012-05-18
10069170	3	Label, Approval, Altair Pro	6	2015-02-27
10074734	47	Altair Pro Single Gas Detector Operating Manua	3	-

Conditions of Certification pertaining to Issue 6 of this Certificate:

1. The lithium batteries of Panasonic CR-2PA/1B, Energizer CR2 EL1CR2BP, Varta CR2 6206 and Varta (Power One) CR2 CR15H270, 6206 can be used in the apparatus.
2. The maximum length of the remote sensor connecting cable in the "Altair Pro-R O₂" does not exceed 3.3 metres (10 feet).

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