



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 16ATEX2292** Issue: **3**

4 Equipment: **ALTAIR 4XR Multi Gas Detector**

5 Applicant: **MSA – The Safety Company**

6 Address: 1000 Cranberry Woods Dr.
Cranberry Township
PA 16066-5296
USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012/A11:2013 EN 60079-1:2014 EN 60079-11:2012 EN 60079-29-1:2016*

* Applies to Group II only.

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

With XCell Ex Sensor



II 1G
Ex da ia IIC T4 Ga
EN 60079-29-1
Ta = -40°C to +60°C



I 1M
Ex ia I Ma
Ta = -40°C to +60°C

Without XCell Ex Sensor



II 1G
Ex ia IIC T4 Ga
EN 60079-29-1
Ta = -40°C to +60°C



I 1M
Ex ia I Ma
Ta = -40°C to +60°C

Project Number 70163962

C Ellaby
Deputy Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

**Sira 16ATEX2292
Issue 3**

13 DESCRIPTION OF EQUIPMENT

The MSA ALTAIR® 4XR is a handheld battery operated Multi-gas Detector with Bluetooth capabilities 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.

Variation 1 - This variation introduced the following change:

- i. Issued to recognise a new label drawing.


Variation 2 - This variation introduced the following change:

- i. It was recognised that the products conform to the performance testing requirements of EN 60079-29-1:2016, consequently:
 - The introduction of Standard EN 60079-29-1:2016 to the list of Assessment Standards.
 - The introduction of performance marking "EN 60079-29-1" on the label.
 - The introduction of a new label drawing


Variation 3 - This variation introduced the following changes:

- i. Sira 16ATEX2291 and Sira 16ATEX2292 have been merged into Sira 16ATEX2292. The ATEX certificate Sira 16ATEX2291 will be suspended.
- ii. The detector was allowed to be used for mining applications; as a consequence, the following marking was recognised:

With XCell Ex Sensor

 I 1M
Ex ia I Ma
Ta = -40°C to +60°C

Without XCell Ex Sensor

 I 1M
Ex ia I Ma
Ta = -40°C to +60°C

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	25 October 2016	R70071650A	The release of the prime certificate.
1	23 December 2016	R70071668A	The introduction of Variation 1.
2	06 October 2017	R70112838A	The introduction of Variation 2
3	21 March 2018	R70163962A	The introduction of Variation 3.

This certificate and its schedules may only be reproduced in its entirety and without change.



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 16ATEX2292
Issue 3

- 15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)
None
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)
The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 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 Sira of any modifications to the device that may impinge upon the explosion safety design of the ALTAIR 4XR.

Certificate Annexe



Certificate Number: Sira 16ATEX2292
Equipment: ALTAIR 4XR Multi Gas Detector
Applicant: MSA – The Safety Company

Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Description
SK3098-1360	1 to 21	0	02 Sep 16	ALTAIR 4XR schedule drawing
SK3025-1109	1 to 2	0	04 Oct 16	ATEX Approvals Label, ALTAIR 4XR

Issue 1

Drawing no.	Sheets	Rev.	Date (Sira Stamp)	Description
SK3025-1109*	1 to 2	1	14 Dec 16	ATEX Approvals Label, ALTAIR 4XR

Issue 2

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
SK3098-1413*	1 to 4	0	21 Sep 17	ATEX Marking and Instructions Approval Drawing, ALTAIR 4XR Gas Detector

*Note Drawing SK3098-1413 replaces Drawing SK3025-1109

Issue 3

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
SK3098-1413	1 to 4	1	15 Mar 18	ATEX Marking and Instructions Approval Drawing, ALTAIR 4XR Gas Detector

This certificate and its schedules may only be reproduced in its entirety and without change.