



Physical Technical Testing Institute, Ostrava-Radvanice

National testing authority No 210

Certification body No. 3051 accredited by CAI Praha

Certificate No. FTZÚ 16 E 0007

about verification of workplace atmospheres – Electrical apparatus used for the direct detection and direct concentration measurement of toxic gases and vapours

This certificate is issued for: **ALTAIR 4XR Multigas Detector**

Manufacturer: **MSA – The Safety Company**

Address: **1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, USA**

Above mentioned product and any of its variant are specified in Annex of the certificate and in documentation, list of which is attached in Annex of this certificate.

The examination and test results are recorded in confidential Report No.

16E0007 dated 21.04.2017

FTZÚ – National testing authority No. 210 confirms, that product comply with requirements following standards:

EN 45544-1:2015, EN 45544-3:2015, EN 50104:2010, EN 50271:2010

Manufacturer (or applicant) listed in this supplement to the certificate is responsible for product conformity assurance in accordance with its specification (documentation) listed in schedule of this supplement to the certificate and for successful performance of all specified routine tests and verification.

This certificate is valid till: **21.04.2022**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: **21.04.2017**

Page: 1/2

This certificate is granted subject to the general conditions of the FTZÚ, s.p.
This certificate may only be reproduced in its entirety and without any change, schedule included.

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Schedule

Certificate No. FTZÚ 16 E 0007

Product description:

The product ALTAIR 4XR Multigas Detector is a portable apparatus designed to monitor gases in ambient air and in the workplace. It is available with a maximum of three sensors which can display readings for four gases.

The product is supplied by an encapsulated battery which may be charged only in a safe area and from chargers made available by MSA for use with this instrument.

This certificate is concerned only the performance tests for toxic gases - hydrogen sulfide H₂S in the range of 0 - 200 ppm and oxygen O₂ in range 0-25% (v/v). The performance tests covers only the test conditions according to standards mentioned in this certificate.

The evaluation according to standard EN 50270 is on manufacturer's responsibility.

Parameters recapitulation:

Performance tests have been carried out with inner MSA XCell Electro-Chemical Toxic Gas Sensors:

- Gas H₂S in range 0-200 ppm. The TWA function is not supported.
- Gas O₂ in range 0-25% (v/v) oxygen deficiency and enrichment

Performance tests for temperature range: -20 to +60°C

Firmware version: v2.27

List of documentation:

Document No.:	Revision:	Date:	Pages:	Title:
10175896	00	2016	64	Operating Manual
10175895	3	2017	4	Addendum A for operating manual
SK3098-1399	0	23.02.2017	53	Safety Discussion

Responsible person:

Date of issue: 21.04.2017

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Page: 2/2

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Supplement No. 1 to Certificate No. FTZÚ 16 E 0007

about verification of workplace atmospheres – Electrical apparatus used for the direct detection and direct concentration measurement of toxic gases and vapours

This certificate is issued for: **ALTAIR 4XR Multigas Detector**

Manufacturer: **MSA - The Safety Company**

Address: **1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, USA**

This supplement to certificate is valid for: - new performance tests

Modification of certified apparatus and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this supplement to the certificate.

The examination and test results are recorded in confidential Report No.

16E0007/1 dated 16.10.2017

FTZÚ – National testing authority No. 210 confirms, that product comply with requirements following standards:

EN 45544-1:2015, EN 45544-2:2015, EN 45544-3:2015, EN 50104:2010, EN 50271:2010

Manufacturer (or applicant) listed in this supplement to the certificate is responsible for product conformity assurance in accordance with its specification (documentation) listed in schedule of this supplement to the certificate and for successful performance of all specified routine tests and verification.

This certificate is valid till: **21.04.2022**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: **16.10.2017**

Page: 1/2

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Schedule

Supplement No. 1 to Certificate No. FTZÚ 16 E 0007

Product description changes:

The new performance tests have been carried out according to the standards EN 45544-1:2015 and EN 45544-2:2015 for gas carbon monoxide CO in range 0 to 1999 ppm in temperature range -20 to 50°C. The evaluation according to standard EN 50270 is on manufacturer's responsibility.

Parameters recapitulation:

Performance tests have been carried out with inner MSA XCell Electro-Chemical Toxic Gas Sensors:

- Gas hydrogen sulphide H₂S in range 0-200 ppm in temperature range -20 to +60°C. The TWA function is not supported.
- Gas oxygen O₂ in range 0-25% (v/v) deficiency and enrichment in temperature range -20 to +60°C.
- Gas carbon monoxide CO in range 0 to 1999 ppm in temperature range -20 to 50°C.

Firmware version: v2.27

List of documentation:

Document No.:	Revision:	Date:	Pages:	Title:
10175895	4	2017	7	Addendum A for operating manual

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Page: 2/2

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