



Physical Technical Testing Institute, Ostrava-Radvanice

National testing authority No 210

Certification body No. 3051 accredited by CAI Praha

## 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**

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## Schedule

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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 H<sub>2</sub>S in range 0-200 ppm in temperature range -20 to +60°C. The TWA function is not supported.
- Gas oxygen O<sub>2</sub> 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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