



Physical-Technical Testing Institute
Ostrava - Radvanice

Supplementary Type Examination Certificate No. 11

about verification of the product used for the detection and
measurement of oxygen and toxic gases in workplace atmospheres
according to the Certification Scheme A

Type Examination Certificate number:

FTZÚ 09 E 0026

Product: **ALTAIR 5X Multigas Detector**

Manufacturer: **MSA - The Safety Company**

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

This supplementary certificate extends Certificate No. FTZÚ 09 E 0026 to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

Physical-Technical Testing Institute, Certification Body No. 3051 accredited by ČIA o.p.s. Prague according to EN ISO / IEC 17065:2012 confirms that the above mentioned product is in conformity with the requirements of the following standards:

EN 50104:2019+A1:2023, EN 45544-1:2015, EN 45544-3:2015, EN 50271:2018

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

This supplementary certificate relates only to verification of electrical apparatus used for the detection and measurement of oxygen and toxic gases in workplace atmospheres. Further requirements can be applied to the manufacturing process and supply of this product. These are not covered by this certificate.

Responsible person:

V. Z. Jga

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 13.08.2024

Page: 1/3



**Physical-Technical Testing Institute
Ostrava – Radvanice**

Schedule

**Supplementary Type Examination Certificate No. 11 to
FTZÚ 09 E 0026**

Description of product changes:

The subject of this supplementary certificate is:

- Change of the software version.
- Assessment according to EN 50271:2018 and EN 50104:2019+A1:2023.
- Updated documentation.

The firmware has been updated to version v2.20.1. The assessment in scope of the standards EN 50271:2018 and EN 50104:2019+A1:2023 with additional performance tests for gas O₂ oxygen have been carried out. The assessment according to other standards EN 45544-1:2015, EN 45544-3:2015 for gas H₂S hydrogen sulphide has not been affected. The documentation has been updated. The limited validity of the certificate has been removed.

The current model of the product named ALTAIR 5 Multigas Detector is not already produced by manufacturer and the evaluation of this model has been discontinued.

Recapitulation of product description and parameters:

The product is a portable aspired equipment designed with integral pump to monitor gases in ambient air and in the workplace. It is available with a maximum of four sensors which can display readings for five 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 in an ambient temperature from 0°C to +45°C. The product can also be supplied with an alkaline battery pack. The battery pack and individual cells can be changed only in safe area and as specified on the approval label.

The gas performance tests have been carried out on the product for gas O₂ oxygen and H₂S hydrogen sulphide with inner electrochemical sensors type MSA eChem in the conditions, specification and applied accessory mentioned below:

Conditions: The EMC evaluation according to standard EN 50270:2015 is not covered by this certificate and it is on manufacturer's responsibility.
The TWA function is not supported for gas H₂S.
The warm-up time is up to 180 seconds for gas O₂.
IR and wireless interface have not been applied for gas performance tests.

Specification:	Gas range:	0 to 200 ppm for gas H ₂ S
	Gas range:	0 to 25% V/V for gas O ₂
	Pressure range:	80 to 120 kPa
	Humidity range:	20 to 90 % RH
	Nom. voltage range:	Internal Li-Ion battery 3.6 V or 3x AA cell
	Calibration flow:	30 litres / hour
	Temperature range:	-20 to +50°C
	Software version:	v2.20.1
	Interface:	LCD display

Responsible person:

V. z. Jga

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 13.08.2024

Page: 2/3

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.



**Physical-Technical Testing Institute
Ostrava – Radvanice**

Schedule

**Supplementary Type Examination Certificate No. 11 to
FTZÚ 09 E 0026**

Applied accessory: Charging Cradle (Europe) P/N:10093057

Test report No.: 09E/0026/11

List of documentation:

Document No.:	Issue:	Description:
10223097	03	ADDENDUM Standards Compliance Certifications
SK3098-1184	12	FTZU Approvals
10114801	09	Operating Manual

Responsible person:

v z. Jga

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 13.08.2024

Page: 3/3

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.

Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic
tel.: +420 595 223 111, +420 604 203 525, e-mail: ftzu@ftzu.cz, www.ftzu.cz