



(1) **Supplementary EU - Type Examination Certificate No.22**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 08 ATEX 0340X

(4) Product: **ALTAIR 5X Multigas Detector**

(5) Manufacturer: **MSA – The Safety Company**

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

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 08 ATEX 0340X 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.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018
EN 60079-1:2014
EN 60079-11:2012**

**EN 50303:2000
EN 60079-29-1:2016**

**EN 50104:2019
EN 50271:2018**

If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

(11) The marking of the product shall include the following:



**I M1 Ex ia I Ma
II 1G Ex da ia IIC T3, T4 Ga**

(12) This certificate is valid till: **30.09.2026**

Responsible person:

v z. Jgan

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 30.09.2021

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

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 22
to FTZÚ 08 ATEX 0340X**

(15) Description of the variation to the product:

The subject of this supplementary certificate is:

- Modification of the certified product.
- Evaluation according to the newest standards.
- Prolongation of certificate validity.

This supplementary certificate describes the change of the software. The product has been evaluated according to the new standards as mentioned in clause (10). The validity of the certificate has been prolonged for next five years. The documentation has been updated.

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.

Applied Ex components:

Catalytic sensor MSA XCell Ex, Ex da ia IIC Ga, Ex ia Ma certified by FTZÚ 09 ATEX 0123U
El.chem. sensor MSA XCell eChem, Ex ia IIC Ga, Ex ia Ma certified by FTZÚ 09 ATEX 0223U

Parameters:

Charging contacts entity parameters: $U_m \leq 6.7$ V (for version with rechargeable battery)
Ambient temperature range: -40°C to $+50^\circ\text{C}$ for explosion safety
Degree of protection provided by enclosure: IP65

Temperature class depends of used battery:

T3 - with Varta High Energy 4906, LR6, MN1500 or Energizer HP7 Stilo, E91, LR6, MN1500
T4 - with Panasonic CGR18650DA or Panasonic/Sanyo UR18650A or Duracell LR6, MN1500

Performance approvals for temperature range: -20°C to $+50^\circ\text{C}$

Gases CH_4 , C_3H_8 , H_2 , C_4H_{10} , C_5H_{12} in range 0-100% LFL for Group II by catalytic sensor.

Gas CH_4 in range 0-100% LFL for Group I by catalytic sensor.

Gas O_2 in range 0-25% (v/v) for inertization purposes only for Group I and II by electrochemical sensor.

Firmware version: v2.20.1

(16) Report Number: 08/0340/22

Responsible person:

v z. 9907

Dipl. Ing. Lukáš Martinák
Head of Certification Body



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

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 22
to FTZÚ 08 ATEX 0340X**

(17) Specific Conditions of Use: not changed, only recapitulated

1. The equipment shall only be charged by manufacturer's chargers in an ambient temperature from 0°C to +45°C and opened in a non-hazardous area.
2. The warm-up time for oxygen is up to 180 seconds.
3. In event of combustible sensor overrange the apparatus shall be exposed to fresh air for 20 minutes minimum and then the fresh air setup procedure shall be done.
4. The alarm set points are not applied for measuring oxygen inertization and it shall be taken into account.
5. The equipment enclosure includes accessible metal parts. The end user shall determine suitability in the specific application. The measured capacitance of the equipment with AA cells on the item: Battery fastening screw is 6pF. The measured capacitance of the equipment with Lilon cell on the item: D-ring is 26pF and on the item: Pin for charging is 16pF.
6. The antenna used for activation of the internal RFID tag with the RF radiation power shall not exceed 6W for Group I and 2W for Group IIC.
7. The EMC evaluation according to standard EN 50270:2015 is on manufacturer's responsibility.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents: only updated or new for this supplement

Number:	Revision:	Description:
10223097	1	ADDENDUM Standards Compliance Certifications
SK3098-1184	11	FTZU Approvals
SK3098-1185	1	Label, ATEX Approvals, Altair 5X
10114801	6	Operating Manual

Responsible person:

v z. Jg07

Dipl. Ing. Lukáš Martinák
Head of Certification Body



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