IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FTZU 15.0009X**	Page 1 of 4
Status:	**Current**	Issue No: 2
Date of Issue:	2021-12-15	

Applicant:
MSA - The Safety Company
1000 Cranberry Woods Drive
Cranberry Township
PA 16066
United States of America

Equipment: **Multigas Detector ALTAIR 5X PID**

Optional accessory:

Type of Protection: **Intrinsic safety**

Marking:
Ex ia I Ma
Ex da ia IIC T4 Ga

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Martin Gregor

Position:

Vice Head of Certification Body

Signature:
(for printed version)

Date:

Certificate issued by:

**Fyzikalne technicky zkusebni ustav
(Physical -Technical Testing Institute)
Pikartska 7, 71607 Ostrava - Radvanice
Czech Republic**

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Manufacturer:
MSA - The Safety Company
1000 Cranberry Woods Drive
Cranberry Township
PA 16066
United States of America

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017   Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011   Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements
other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

CZ/FTZU/ExTR15.0009/00   CZ/FTZU/ExTR15.0009/01   CZ/FTZU/ExTR15.0009/02

Quality Assessment Report:

FR/INE/QAR08.0011/11

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The equipment is the hand held multigas detector type Altair 5X PID. The equipment is designed to monitor gases in an ambient air and in a workplace. It is available with a maximum of five sensors which can display readings for six gases. The sensors have own Ex component certificates. The equipment consists of four PCBs with display, three buttons and two charging pins. All PCBs with display are mounted inside a static dissipative moulded plastic enclosure. If the gas concentration reaches the alarm set points, a visual alarm, an audible alarm and a tactile alarm is given. The equipment is supplied by an encapsulated secondary Li-Ion cell and includes one passive RFID tag. This certificate does not include the performance tests according to IEC 60079-29-1.

Parameters:
Degree of protection: IP 65, Ambient temperature: -20 to +50°C, Charging: Um = 6.7 V;

List of used Ex components:
Catalytic sensor MSA XCell Ex, Ex da ia IIC Ga, Ex ia Ma, certified by IECEx FTZU 09.0023U Issue 1
El.chem. sensor MSA XCell eChem, Ex ia IIC Ga, Ex ia Ma ,certified by IECEx FTZU 09.0024U Issue 3
PID sensor Baseline-MoconTech PiD-TECH eVx, Ex ia IIC Ga, certified by IECEx UL 13.0050U Issue 1
PID sensor Tech sensor plus ZPP60180, Ex ia IIC Ga, certified by IECEx UL 06.0011U Issue 2

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. The equipment shall be charged by manufacturer's chargers only in an ambient temperature from 0°C to +45°C and opened when the hazardous area is not present.

2. When using the equipment in hazardous area, the equipment should be worn or carried on the body. It shall not be stored in a hazardous area. This prevents the possibility of the equipment building up an electrostatic charge. The measured capacitance of accessible metal parts: D-Ring 24pF and Charge contact pins 17pF.

3. 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.

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
The assessment according to the new edition of the standard IEC 60079-0:2017.
The monochrome display module was added as a second option to the colour display module.