

**UNITED KINGDOM CONFORMITY ASSESSMENT
UK TYPE EXAMINATION CERTIFICATE**

**Product Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

Type Examination Certificate Number: **ExVeritas 22UKEX1265X** Issue: **0**

Product: ALTAIR 5X PID Multigas Detector

Manufacturer: MSA – The Safety Company

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

This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

ExVeritas Limited Approved Body number 2585, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product 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 Schedule 1 of the Regulations.

Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0: 2018
EN 50303:2000**

EN 60079-1:2014

EN 60079-11:2012

Except in respect of those requirements listed at section 16 of the schedule to this certificate.

If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the equipment shall include the following:

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



No. 8613

On behalf of ExVeritas



**S Clarke CEng MSc FIET
Managing Director**

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The status of this certificate can be verified at www.exveritas.com

For help or assistance relating to this certificate, contact info@exveritas.com.

ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.

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Schedule

13 Description of Product

The ALTAIR 5X PID is a hand held multigas detector. 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 EN 60079-29-1.

Applied Ex components:

Catalytic sensor MSA XCell Ex Ex da ia IIC Ga, Ex ia Ma	ExVeritas 22UKEX1269U
El.chem. sensor MSA XCell eChem Ex ia IIC Ga, Ex ia Ma	ExVeritas 22UKEX1270U
PID sensor Baseline-MoconTech PiD-TECH eVx, Ex ia IIC Ga,	IECEX UL 13.0050U Issue 7
PID sensor Tech sensor plus ZPP60180, Ex ia IIC Ga,	IECEX UL 06.0011U Issue 6

Parameters:

Charging Contacts entity parameters:	Um = 6.7V
Ambient temperature range:	-20°C to +50°C
Degree of protection by enclosure:	IP65

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R3961/A/1	2022-11-10	0	Initial issue of the Prime Certificate

14.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
Drawings Altair 5X PID FTZU	SK3098-1334	5	07-22-22
Att dwg	SK3098-1393	0	16.02.2017
ADDENDUM Standards Compliance Certifications	10225122	1	

15 Specific Conditions of Use

15.1 Special Conditions for Safe Use

- 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.
- 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.
- 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.

15.2 Routine tests

- None

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16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform ExVeritas of any modifications to the design of the product described by this schedule.

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