



EC-Type Examination Certificate

- (1)
(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 94/9/EC)**

(3) EC-Type Examination Certificate Number:

FTZÚ 13 ATEX 0109X

- (4) Equipment: **Altair Pump Probe**
(5) Manufacturer: **MSA CHINA Safety Equipment Co., Ltd.**
(6) Address: **No.8 Rui En Lane, Xingpu Road, Suzhou Industrial Park, Jiangsu, China**
(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°:

13/0109 dated 13.09.2013

- (9) Compliance with Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012, EN 60079-11:2012
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
(11) This EC-Type Examination Certificate relates only to the design, examination and testing of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
(12) The marking of the equipment or protective system shall include the following:

 **II 2G Ex ia IIC T4 Gb**

This EC-Type Examination Certificate is valid till: **13.09.2018**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: **13.09.2013**

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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 13 ATEX 0109X**

(15) Description of Equipment:

The equipment intrinsically safe Altair Pump Probe is a hand held portable gas sampling pump and has audible and visual alarms, which indicate block flow, low battery power and charge status.

The equipment consists of one PCB with electronic, one pump with drive and one cell inside of a plastic enclosure and a connected tubing and wand. The power source is a single, non-user replaceable 3.7 V Lithium Ion cell. The equipment has only two external contacts for battery recharging in a non-hazardous location. It is intended to use in conjunction via tubing and wand with other portable gas detection equipment.

Parameters:

Ambient temperature: $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Charging parameters: $U_m = 6.7 \text{ V}$

(16) Report No.: 13/0109

(17) Special conditions for safe use:

17.1 The equipment shall be charged only in non-hazardous location by manufacturer's chargers only. The charging voltage shall not exceed 6.7 V.

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standard mentioned in (9), according which the product was verified and in the manufacturer's Operating manual.

Responsible person:

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Head of Certification Body



Date of issue: 13.09.2013

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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 13 ATEX 0109X

(19) List of Documentation:

Number:	Rev.:	Date:	Sheets:	Description:
10153106	00	27.08.2013	16	Operating manual
AP10150031	00	18.06.2013	2	Assembly drawing
AP10147723	00	25.04.2013	1	Housing, upper drawing
AP10147724	00	18.06.2013	1	Housing, lower drawing
AP10147726	00	25.04.2013	1	Tubing drawing
AP10147727	00	18.06.2013	1	Cap drawing
AP10148017	00	18.04.2013	1	Holder drawing
AP10148018	00	28.02.2013	1	Wand fitting Probe drawing
AP10148472	00	26.04.2013	1	Wand gasket drawing
AP10148473	00	26.04.2013	1	Buzzer gasket drawing
AP10148020	00	08.07.2013	1	Wand drawing
AP10148495	00	18.02.2013	1	Label, MSA logo drawing
AP10148496	01	30.07.2013	1	Label, serial number drawing
AP10152430	01	24.07.2013	1	Label ATEX/IECEx
AP10148499	00	01.04.2013	1	Pump and drive drawing
APHT 1307001	02	02.05.2013	1	Blockdiagram drawing
APHT 1302001	02	02.05.2013	1	Schematic drawing
AP10147729	02	02.05.2013	1	PCB drawing
AP10147728	00	02.05.2013	1	PCB Placement
BOM 10147728	03	22.05.2013	3	Bill of Material

Responsible person:

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Date of issue: 13.09.2013

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(1) **Supplement No. 1 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 94/9/EC)**

(3) EC-Type Examination Certificate Number:

FTZÚ 13 ATEX 0109X

(4) Equipment: **Altair Pump Probe**

(5) Manufacturer: **MSA CHINA Safety Equipment Co., Ltd.**


(6) Address: **No.8 Rui En Lane, Xingpu Road, Suzhou Industrial Park, Jiangsu, China**

- (7) This supplement of certificate is valid for: - modification of the equipment
- (8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.
- (9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains other requirements, which manufacturer shall fulfil before products are place on market or introduce in service.
- (10) Safety requirements of modified parts were fulfilled by satisfying the following standards:
EN 60079-0:2012, EN 60079-11:2012
- (11) Marking of equipment shall contain symbols:

 **II 2G Ex ia IIC T4 Gb**

(12) This type examination certificate is valid till: **09.09.2018**

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Date of issue: 20.03.2015

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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14)

Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 13 ATEX 0109X

(15) Description of Equipment:

This Supplement covers the modification of some mechanical parts and the documentation has been updated and corrected. These changes have no influence to the intrinsic safety. The list of the documentation is mentioned in clause (19).

(16) Report No.: 13/0109/1

(17) Special conditions for safe use: remain unchanged

(18) Essential Health and Safety Requirements:

Essential health and safety requirements of Directive 94/9/EC are covered by the standards mentioned in clause (10) of this supplement according which the modified equipment was verified.

(19) List of Documentation:

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AP10148018	01	28.02.2013	1	Wand fitting Probe drawing
AP10148472	02	23.10.2014	1	Wand gasket drawing
AP10148473	02	23.10.2014	1	Buzzer gasket drawing
AP10148020	02	23.10.2014	1	Wand drawing
AP10148495	01	18.02.2013	1	Label, MSA logo drawing
AP10148496	01	30.07.2013	1	Label, serial number drawing
AP10152430	01	24.07.2013	1	Label ATEX/IECEx
AP10148499	01	01.04.2013	1	Pump and drive drawing
APHT 1307001	02	02.05.2013	1	Block diagram drawing
APHT 1302001	02	02.05.2013	1	Schematic drawing
AP10147729	02	02.05.2013	1	PCB drawing
AP10147728	02	02.05.2013	1	PCB Placement
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