



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 05 ATEX 0003X

(4) Equipment or protective system: **Sirius Multi – Gas Detector**

(5) Manufacturer: **Mine Safety Appliances Co., Instrument Division**

(6) Address: **P.O.Box 427, Pittsburgh, PA 15230;
1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, U.S.A**

- (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°

05/0003 dated 29 April 2005

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 61779-1:2000; EN 61779-4:2000; EN 50104:2002; EN 50270:1999; EN 50271:2001

(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 following:

 **II 2G EEx ia d IIC T3/T4**

This EC-Type Examination Certificate is valid till: **29.04. 2010**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 29 of April 2005

Number of pages: 3
Page: 1/3

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Physical Technical Testing Institute
Ostrava-Radvanice

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(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003X**

(15) Description of Equipment or Protective System:

The Sirius Multi-Gas Detector is a measuring device, which can be equipped up to five sensors. In this case it ensures measuring of flammable gases, oxygen, carbon monoxide, hydrogen sulphide and volatile organic compounds (VOCs). The device is equipped with the automatic gas aspiration device with air flow monitoring. The exceeding of signalling limits is optically and acoustic indicated on device display. The display allows the observation of concentration of particular gases, reading and pre-setting of limits, warning levels and battery condition.

This certificate confirms that Sirius Multi-Gas Detector satisfies performance requirements for methane, pentane and oxygen according to standards mentioned in (9).

The explosion protection weren't verified by FTZÚ.

The explosion protection was verified by certificate BVS 05 ATEX E 025X – the notified body EXAM.

(16) Report No.: 05/0003 (20 pages)

(17) Special conditions for safe use:

17.1 The performance tests were made for ambient temperature -10°C to $+40^{\circ}\text{C}$, according to requirements of standard EN 61779-4 and EN 50104. The deviation at -10°C for measurement of O_2 exceeded allowed tolerances.

17.2 For normal range of ambient temperature specified by manufacturer -0°C to $+40^{\circ}\text{C}$ the tests results comply the required deviations even for measurement of O_2 .

(18) Essential Health and Safety Requirements: -

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 29 of April 2005

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(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003X**

(19)

LIST OF DOCUMENTATION

1. MSA Sirius MultiGas Detector Operating Manual,
file 10048887 English – Rev. 1.pdf (87 pages) verified on 28.04.2005
2. Project: SiriusSource.udc. file SiriusSource.SW.pdf (402 pages) verified on 28.04.2005
3. Sirius Software EN 50271 Safety Discussion,
file SiriusSafety.SW.pdf (9 pages) verified on 28.04.2005
4. Visio-sirius_doc.SW.pdf (10 pages) verified on 28.04.2005
5. Drawings No.:
Wiring schematic, P.C. Board, Sirius Button. No. 10000015649 on 18.03.2004
Wiring schematic, P.C. Board Assembly, Main, Sirius No. 10000015622 on 18.03.2004
Label, European Approval No. 10000018089 on 23.10.2003

Responsible person:

Date of issue: 29 of April 2005

Dipl. Ing. Šindler Jaroslav
Head of certification body



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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 05 ATEX 0003X

(4) Equipment or protective system: **Sirius Multi – Gas Detector**

(5) Manufacturer: **Mine Safety Appliances Co., Instrument Division**

(6) Address: **P.O.Box 427, Pittsburgh, PA 15230;
1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, U.S.A**

(7) This supplement of certificate is valid for: - software modification of device

(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 another 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:

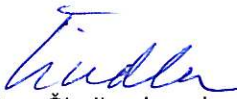
EN 50271 : 2001

(11) Marking of equipment shall contain symbols:

 **II 2G EEx ia d IIC T3/T4**

(12) This type examination certificate (with supplement) is valid till: **29. 04. 2010**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 21.10.2005

Number of pages: 3

Page: 1/3

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(14)

Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003X

(15) Description of Equipment or Protective System:

The software of device was modified. The former version 1.1 was replaced by 1.2 version. The files with program source codes, which were changed are mentioned in documentation. The changes has no influence to the safety integrity and so there was no need to carry out new performance tests.

(16) Report No. : 04/0003/1

(17) Special conditions for safe use: remain valid

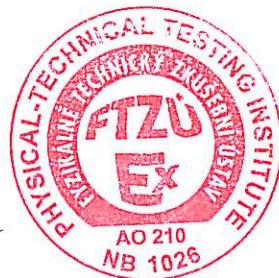
(18) Essential Health and Safety Requirements: -

Responsible person:

A handwritten signature in blue ink, appearing to read 'Šindler'.

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 21.10. 2005

Page: 2/3

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(14)

Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 05ATEX 0003X


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LIST OF DOCUMENTATION

- | | | |
|----|---------------------------|---------------|
| 1. | Sirius VR 12.zip (113 kB) | on 12.10.2005 |
| 2. | Modified modules: | |
| | alarm.c | on 21.07.2005 |
| | datalink.c | on 12.07.2005 |
| | display.c | on 12.07.2005 |
| | memory.c | on 21.07.2005 |
| | sensor.c | on 12.07.2005 |
| | sensor.h | on 12.07.2005 |
| | sirius.c | on 21.07.2005 |
| | sirius.h | on 21.07.2005 |
| | util.c | on 12.07.2005 |
| | util.h | on 12.07.2005 |

Responsible person:

Date of issue: 21.10. 2005


Dipl. Ing. Sindler Jaroslav
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(1) **Supplement No. 2 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 05 ATEX 0003X

(4) Equipment or protective system: **Sirius Multi – Gas Detector**

(5) Manufacturer: **Mine Safety Appliances Co., Instrument Division**

(6) Address: **P.O.Box 427, Pittsburgh, PA 15230;
1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, U.S.A**

(7) This supplement of certificate is valid for: - modification of certified product

(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 50104 : 2002

(11) Marking of equipment shall contain symbols:

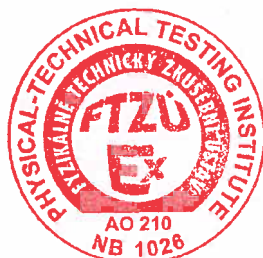
 **II 2G EEx ia d IIC T3/T4**

(12) This type examination certificate (with supplement) is valid till: **29. 04. 2010**

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 20.12.2005

Number of pages: 3

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(13) **Schedule**

(14) **Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 03 ATEX 0003X**

(15) Description of Equipment or Protective System:

Due to alteration of oxygen sensor to type O2-A2 company Alphasense Ltd., the new performance tests were carried out. The sensor complied requirements of standard EN 50104 even for ambient temperature range -10°C to +40°C and so special conditions mentioned in clauses 17.1 and 17.2 of the certificate are cancelled. For SIRIUS instrument was also made verification of field calibration set MSA GALAXY, that complied requirements of standard for calibration of oxygen sensors and flammable gas sensor. In list of documentation was corrected data of revised documents.

(16) Report No. : 05/0003/2 (9 pages)

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements: -

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 20.12. 2005

Page: 2/3

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Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 05ATEX 0003X

(19)

LIST OF DOCUMENTATION

1. Drawings No.:

Wiring schematic, P.C. Board, Sirius Button. No 10000015649, Rev 3 on 19.03.2004

Wiring schematic, P.C. Board Assembly, Main, Sirius No 10000015622, Rev 3 on 19.03.2004

Label, European Approval No. 10000018089, Rev 7 on 02.09.2005

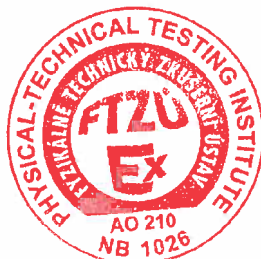
2. Operating Manual MSA GALAXY - Automated Test System (30 pages)
Order No:10061049/01

3. Quick start guide - Automated Test System MSA Galaxy (2 pages)
Order No:10061049/01

4. Operating Manual Galaxy™ - Automated Test System
(L) Rev 4 10061049 (40 pages of 112 pages)

Responsible person:

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Date of issue: 20.12. 2005

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(1) **Supplement No. 3 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 05 ATEX 0003

(4) Equipment or protective system: **Sirius Multi – Gas Detector**

(5) Manufacturer: **Mine Safety Appliances Co., Instrument Division**

(6) Address: **P.O.Box 427, Pittsburgh, PA 15230;
1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, U.S.A**

(7) This supplement of certificate is valid for: **instruction for use – German version**

(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 placed on market or introduced in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

EN 61779-1:2000 + A11:2004

(11) Marking of equipment shall contain symbols:

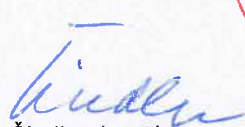
 **II 2G EEx ia d IIC T3/T4**

(12) This type examination certificate (with supplement) is valid till: **29. 04. 2010**

Responsible person:



Date of issue: **28.03. 2006**


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Number of pages: **3**

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**Supplement No. 3 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003**

(15) Description of Equipment or Protective System:

The German version Rev. 0.pdf can be used as instruction for use.

(16) Report No. : -

(17) Special conditions for safe use: -

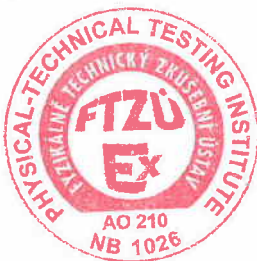
(18) Essential Health and Safety Requirements:

Remain valid.

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 28.03. 2006

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**Supplement No. 3 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003**

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LIST OF DOCUMENTATION

1. MSA SIRIUS Multi-Gas Detector – Betriebsanleitung file 10048887 German – Rev.0.pdf
(61 pages) - 01/2005

Responsible person:

A handwritten signature in blue ink, appearing to read 'Šindler', is written over the printed name.

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 28.03. 2006

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(1) **Supplement No. 4 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 05 ATEX 0003

(4) Equipment or protective system: **Sirius Multi – Gas Detector**

(5) Manufacturer: **Mine Safety Appliances Co., Instrument Division**

(6) Address: **P.O.Box 427, Pittsburgh, PA 15230;
1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, U.S.A**

(7) This supplement of certificate is valid for: - Sirius Instruction Manual – rev. 1
- Galaxy Instruction Manual – rev. 7

(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 61779-1:2000 + A11:2004

(11) Marking of equipment shall contain symbols:

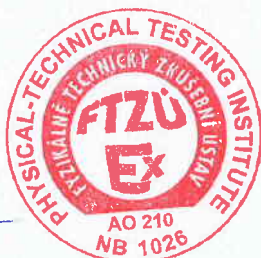
 **II 2G EEx ia d IIC T3/T4**

(12) This type examination certificate (with supplement) is valid till: **29. 04. 2010**

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 02.07.2008

Number of pages: 3

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**Physical Technical Testing Institute
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(13) **Schedule**

(14) **Supplement No. 4 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003**

(15) Description of Variation to the Equipment or Protective System:

Variation four, to permit:

- a) The Sirius Instruction Manual to be updated to version 10092677 Rev. 1.
- b) The Galaxy Instruction Manual to be updated to version 10061049 Rev. 7.

(16) Report No. : -

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:
Remain valid.

Responsible person:

Date of issue: 02.07. 2008

Dipl. Ing. Šindler Jaroslav
Head of certification body



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(13)

Schedule

(14)

Supplement No. 4 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003

(19)

LIST OF DOCUMENTATION

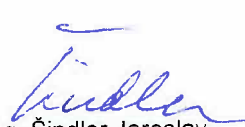
Document:

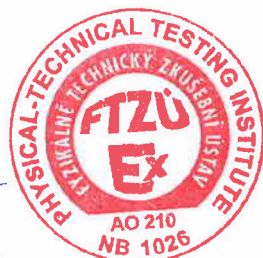
Date:

1. MSA SIRIUS Multi-Gas Detector Instruction Manual No. 10092677 rev. 1 (62 pages) 4-Jun-08
2. MSA Galaxy Automated Test System, Instruction Manual No. 10061049 rev. 7 (41 pages) 25-Jun-08

Responsible person:

Date of issue: 02.07. 2008


Dipl. Ing. Šindler Jaroslav
Head of certification body



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(1) **Supplement No. 5 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 05 ATEX 0003

(4) Equipment or protective system: **Sirius Multi – Gas Detector**

(5) Manufacturer: **Mine Safety Appliances Co., Instrument Division**

(6) Address: **P.O.Box 427, Pittsburgh, PA 15230;
1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, U.S.A**

(7) This supplement of certificate is valid for: - **Galaxy Instruction Manual – revision**

(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 61779-1:2000 + A11:2004

(11) Marking of equipment shall contain symbols:

 **II 2G EEx ia d IIC T3/T4**

(12) This type examination certificate (with supplement) is valid till: **29.04.2010**

Responsible person:


Dipl. Ing. **Sindler Jaroslav**
Head of certification body



Date of issue: **14.08.2008**

Number of pages: **2**

Page: **1/2**

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(13)

Schedule

(14)

**Supplement No. 5 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003**

(15) Description of Variation to the Equipment or Protective System:

Variation five, to permit:

a) The Galaxy Instruction Manual to be updated to version 10061049, Rev. 7, dated 11.08.2008.

(16) Report No. : -

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:

Remain valid.

(19) List of documentation :


Document:

Date:

1. MSA Galaxy Automated Test System, Instruction Manual No. 10061049 rev. 7 (41 pages) 11-Aug-08

Responsible person:

Date of issue: 14.08.2008


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Head of certification body



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(1) **Supplement No. 6 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 05 ATEX 0003X

(4) Equipment or protective system: **Sirius Multi – Gas Detector**

(5) Manufacturer: **Mine Safety Appliances Co., Instrument Division**

(6) Address: **P.O.Box 427, Pittsburgh, PA 15230;
1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, U.S.A**

(7) This supplement of certificate is valid for: - prolongation of certificate validity
- evaluation according to the new standards


(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 60079-29-1:2007 EN 50271:2001 EN 50104:2002 + EN 50104:2002/A1:2004


(11) Marking of equipment shall contain symbols:

 **II 2G EEx ia d IIC T3/T4**


(12) This type examination certificate (with supplement) is valid till: **23.04.2015**

Responsible person: _____

Date of issue: 23.04.2010


Dipl. Ing. Šindler Jaroslav
Head of certification body




Number of pages: 2
Page: 1/2

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14)

Supplement No. 6 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003X

(15) Description of Variation to the Equipment or Protective System:

Variation six, to permit:

- a) Prolongation of the certificate
- b) Evaluation according to new standard EN 60079-29-1:2007

This supplement does not cover the requirements of the standard EN 50270:2006.

(16) Report No. : 05/0003/6 dated 23.04.2010

(17) Special conditions for safe use: are added:

17.1 This supplement does not cover the requirements of the standard EN 50270:2006.

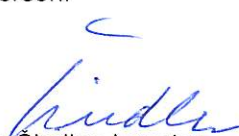
(18) Essential Health and Safety Requirements: see the basic certificate

(19) List of documentation:

- 1. MSA SIRIUS MultiGas Detector Instruction manual No.10092677 rev. 2 (62 pages), revised sheets 8 and 9

The documentation was verified by FTZÚ dated 23.04.2010

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 23.04.2010

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(1) **Supplement No. 7 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 05 ATEX 0003X

(4) Equipment or protective system: **Sirius Multi – Gas Detector**

(5) Manufacturer: **Mine Safety Appliances Co., Instrument Division**

(6) Address: **P.O.Box 427, Pittsburgh, PA 15230;
1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, U.S.A**

(7) This supplement of certificate is valid for: - documentation changes

(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 60079-29-1:2007 EN 50271:2001 EN 50104:2002 + EN 50104:2002/A1:2004

(11) Marking of equipment shall contain symbols:

 **II 2G EEx ia d IIC T3/T4**

(12) This type examination certificate (with supplement) is valid till: **23.04.2015**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 17.06.2011

Number of pages: 2

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14)

Supplement No. 7 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003X

(15) Description of Variation to the Equipment or Protective System:

Variation seven, to permit:

a) Minor changes in spare parts in the Instruction manual mentioned in the clause (19) of this Supplement.

These changes have no affect to safety of the equipment.

(16) Report No. : 05/0003/7 dated 17.06.2011

(17) Special conditions for safe use: remain unchanged

(18) Essential Health and Safety Requirements: remain unchanged

(19) List of documentation:

1. MSA SIRIUS MultiGas Detector Instruction manual No.10092677 rev. 3 (62 pages)

The documentation was verified by FTZÚ dated 17.06.2011.

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 17.06.2011

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This supplement to certificate may only be reproduced in its entirety and without any change, schedule included.

FTZÚ, Pikartská 7, 716 07 Ostrava Radvanice, tel +420 595 223 111, fax +420 596 232 672, e-mail: ftzu@ftzu.cz



(1) **Supplement No. 8 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 05 ATEX 0003X

(4) Equipment or protective system: **Sirius Multi – Gas Detector**

(5) Manufacturer: **Mine Safety Appliances Company**

(6) Address: **1000 Cranberry Woods Drive, Cranberry Twp, PA 16066, U.S.A**

(7) This supplement of certificate is valid for: - documentation changes
- modification of name and address of manufacturer


(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 another 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 60079-29-1:2007, EN 50271:2001, EN 50104:2002 + EN 50104:2002/A1:2004

(11) Marking of equipment shall contain symbols:

 **II 2G EEx ia d IIC T3/T4**

(12) This type examination certificate is valid till: **23.04.2015**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: **17.05.2012**

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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14)

Supplement No. 8 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0003X

(15) Description of Equipment or Protective System:

Variation eight, to permit:

- a) Minor changes of the Galaxy Operating Manual mentioned in the documentation in the point (19).
- b) Due to company restructuring, manufacturer will no longer be recognized at their manufacturing facility as the "Instrument Division" and can just be shown as Mine Safety Appliances Company. Also, the "P.O. Box 427, Pittsburgh, PA 15230" address will no longer be used.

These changes have no affect to the detection performance of the equipment.

(16) Report No.: 05/0003/8

(17) Special conditions for safe use: remain unchanged

(18) Essential Health and Safety Requirements: remain unchanged

(19) List of Documentation:

- [1] MSA Galaxy Automated Test System, Operating Manual No. 10061049, rev. 8 (42 pages)

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 17.05.2012

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