



Physical Technical Testing Institute
Ostrava-Radvanice



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 09 ATEX 0004X

(4) Equipment or protective system: **The measuring and control system MPS-XX-NG**

Manufacturer: **TEVEL TEVE VARNOST Elektronika, d.o.o.**

(5) Address: **Borovniško naselje 7, 1412 Kisovec, Slovenia**

(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°

09/0004 dated 26.04.2010

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

EN 60079-0:2006; EN 60079-11:2007; EN 50303:2000

(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:



I M1 Ex ia I

This EC-Type Examination Certificate is valid till:

30. 04. 2015

Responsible person:

Date of issue: **30.04.2010**

Dipl. Ing. Šindler Jaroslav
Head of certification body



Number of pages: 8
Page: 1/8



Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X**

(15) Description of Equipment or Protective System:

The measuring and control system MPS-XX-NG is a fixed microprocessor control device for application in mining conditions with protection level Ma.

It consists of basic board, LCD board, supply module and appropriate adapter module for contain sensor. In such a way series of apparatus is formed enabling to measure CH₄ (pellistors or IR), CO, CO₂ concentration, flow rate v, temperature T, relative humidity RH.

The output signal can be analogue current loop, frequency output, analogue voltage output and serial interface RS485 or CAN. It can also contain two digital input and two relay outputs.

LCD board contains except LCD displays also two LED diodes of alarm diodes and three contacts less push button.

Equipment and modules marking (plate) – see page 7.

Input/outputs parameters – see page 8.

(16) Report No.: 09/0004

(17) Special conditions for safe use:

The measurement function for explosion protection in accordance with EN 60079-29-1 is not the subject of this EC-Type Examination Certificate.

(18) Essential Health and Safety Requirements:

Essential health and safety requirements of Directive 94/9/EC are covered by standards mentioned in (9), according which the product was verified and in the manufacturer's instruction for use.

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 30.04.2010

Page: 2/8

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X

(19)

LIST OF DOCUMENTATION

<i>Documentation:</i>	<i>Date:</i>
• Technical documentation MPS-XX-NG – ID dok.: 335000	05.03.2010
• List technical documentation MPS-XX-NG (4 pages) - ID dok.: 335001	03/2010
• Drawings No.: ID dok: 335510	03/2010
ID dok: 335511	02/2010
ID dok: 335510	23.02.2010
ID dok: 335910	26.02.2010
ID dok: 335514	21.02.2010
ID dok: 335914	26.02.2010
ID dok: 335015	23.02.2010
ID dok: 335016	23.02.2010
ID dok: 335017	23.02.2010
ID dok: 335018	23.02.2010
ID dok: 335918	26.02.2010
ID dok: 335019	03/2010
ID dok: 335020	03/2010
ID dok: 335450	03/2010
ID dok: 335451	02/2010
ID dok: 335650	03/2010
ID dok: 335050 (2 pages)	25.02.2010
ID dok: 335651	03/2010
ID dok: 335051 (2 pages)	25.02.2010
ID dok: 335652	02/2010
ID dok: 335052 (2 pages)	25.02.2010
ID dok: 335653	02/2010
ID dok: 335053 (2 pages)	25.02.2010
ID dok: 335654	02/2010
ID dok: 335054 (2 pages)	25.02.2010
ID dok: 335655	02/2010
ID dok: 335055 (2 pages)	25.02.2010

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 30.04.2010

Page: 3/8



Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X**

(19)

LIST OF DOCUMENTATION

Documentation:

	Date:
• Drawings No.: ID dok: 335656	02/2010
ID dok: 335056 (2 pages)	25.02.2010
ID dok: 335657	02/2010
ID dok: 335057 (2 pages)	25.02.2010
ID dok: 335662	03/2010
ID dok: 335062 (2 pages)	25.02.2010
ID dok: 335658	02/2010
ID dok: 335058 (2 pages)	25.02.2010
ID dok: 335659	02/2010
ID dok: 335059 (2 pages)	25.02.2010
ID dok: 335673 (3 pages)	03/2010
ID dok: 335063 (2 pages)	25.02.2010
ID dok: 335061 (4 pages)	02.03.2010
ID dok: 335060 (9 pages)	26.02.2010
ID dok: 335670	03/2010
ID dok: 335070 (2 pages)	02.03.2010
ID dok: 335671	03/2010
ID dok: 335071 (2 pages)	02.03.2010
ID dok: 335074 (4 pages)	04.03.2010
ID dok: 335072	26.02.2010
ID dok: 335073	02.03.2010
ID dok: 335077	02/2010
ID dok: 335680	03/2010
ID dok: 335080	02/2010
ID dok: 335180	02/2010
ID dok: 335881	02/2010
ID dok: 335781	02.03.2010
ID dok: 335681	02/2010
ID dok: 335081	04.03.2010
ID dok: 335084 (4 pages)	02.03.2010
ID dok: 335082	02.03.2010
ID dok: 335083	02.03.2010
ID dok: 335401	03/2010
ID dok: 335694	02/2010

Responsible person:

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Date of issue: 30.04.2010

Page: 4/8



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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X

(19)

LIST OF DOCUMENTATION

Documentation:

Date:

• Drawings No.:

ID dok: 335094 (2 pages)	02.03.2010
ID dok: 335106 (4 pages)	02.03.2010
ID dok: 335105	26.03.2010
ID dok: 335402	03/2010
ID dok: 335026	03.03.2010
ID dok: 335447	02.03.2010
ID dok: 335450	02.03.2010
ID dok: 335690	03/2010
ID dok: 335090 (2 pages)	02.03.2010
ID dok: 335096 (4 pages)	02.03.2010
ID dok: 335095	02.03.2010
ID dok: 335403	03/2010
ID dok: 335031	03.03.2010
ID dok: 335661 (4 pages)	04.03.2010
ID dok: 335762	03.03.2010
ID dok: 335193	02/2010
ID dok: 335093 (2 pages)	02.03.2010
ID dok: 335104 (4 pages)	02.03.2010
ID dok: 335103	26.02.2010
ID dok: 335693	03/2010
ID dok: 335293 (2 pages)	02.03.2010
ID dok: 335202 (4 pages)	05.03.2010
ID dok: 335101	02.03.2010
ID dok: 335406	03/2010
ID dok: 335041	25.02.2010
ID dok: 335449	03.03.2010
ID dok: 335448	03.03.2010
ID dok: 335692	03/2010
ID dok: 335092 (2 pages)	02.03.2010
ID dok: 335100 (4 pages)	02.03.2010
ID dok: 335099	02.03.2010
ID dok: 335407	03/2010
ID dok: 335131	03.03.2010
ID dok: 335663	03.03.2010
ID dok: 335664	03.03.2010

Responsible person:

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Date of issue: 30.04.2010

Page: 5/8



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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X

(19)

LIST OF DOCUMENTATION

Documentation:

Date:

• Drawings No.:	ID dok: 335593	03/2010
	ID dok: 335393 (2 pages)	02.03.2010
	ID dok: 335204 (4 pages)	02.03.2010
	ID dok: 335203	02.03.2010
	ID dok: 335695	03/2010
	ID dok: 335394 (2 pages)	05.03.2010
	ID dok: 335102 (4 pages)	05.03.2010
	ID dok: 335201	05.03.2010
	ID dok: 335409	03/2010
	ID dok: 335310	03.03.2010
	ID dok: 335480	03.03.2010
	ID dok: 335481	03.03.2010
	ID dok: 335485	03/2010
	ID dok: 335720	03/2010
	ID dok: 335320 (2 pages)	02.03.2010
	ID dok: 335331 (4 pages)	02.03.2010
	ID dok: 335330	26.02.2010
	ID dok: 335411	03/2010
	ID dok: 335121	03.03.2010
	ID dok: 335482	03.03.2010
	ID dok: 335483	03.03.2010
	ID dok: 335484	03.03.2010
	ID dok: 335794	03/2010
	ID dok: 335194 (2 pages)	02.03.2010
	ID dok: 335206 (4 pages)	02.03.2010
	ID dok: 335205	26.02.2010

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Date of issue: 30.04.2010

Page: 6/8

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X**

Input/output parameters:

Power supply: terminals No. 5 (Uin+) and No. 6 (Uin-): $U_i = 15 \text{ V}$; $I_i = 2,4 \text{ A}$; $C_i \sim 0$; $L_i \sim 0$

Analog signal output: terminals No. 8 (S+) and No. 7 (S-):

Current signal output parameters:

$U_o = 10,5 \text{ V}$; $I_o = 78,5 \text{ mA}$; $P_o = 206 \text{ mW}$; $C_o = 66 \text{ }\mu\text{F}$; $L_o = 60 \text{ mH}$

Frequency signal output parameters (alternative to current output):

without R51: $U_i = 30 \text{ V}$; $I_i = 100 \text{ mA}$; $P_i = 100 \text{ mW}$; $L_i \sim 0$; $C_i \sim 0$

with R51: $U_o = 10,5 \text{ V}$; $I_o = 10,6 \text{ mA}$; $P_o = 27,8 \text{ mW}$; $C_o = 66 \text{ }\mu\text{F}$; $L_o = 1 \text{ H}$

Voltage signal output parameters (alternative to current output):

$U_o = 10,5 \text{ V}$; $I_o = 10,6 \text{ mA}$; $P_o = 27,8 \text{ mW}$; $C_o = 66 \text{ }\mu\text{F}$; $L_o = 1 \text{ H}$

Serial communication output: terminals No. 9 (CANL, RS485b) and No. 10 (CANH, RS485a):

$U_o = 5,88 \text{ V}$; $I_o = 106 \text{ mA}$; $P_o = 156 \text{ mW}$; $C_o = 1000 \text{ }\mu\text{F}$; $L_o = 25 \text{ mH}$

$U_i = 5,88 \text{ V}$; $L_i \sim 0$; $C_i \sim 0$

Digital inputs DI1, DI2:

terminals No. 1 (DI1+) and No. 2 (DI1-) and terminals No. 3 (DI2+) and No. 4 (DI2-)

$U_o = 5,88 \text{ V}$; $I_o = 2,5 \text{ mA}$; $P_o = 3,7 \text{ mW}$; $C_o = 1000 \text{ }\mu\text{F}$; $L_o = 1 \text{ H}$

Relays outputs DO1, DO2:

Re1 – terminals No. 11 and No. 12 and Re2 – terminals No. 13 and No. 14:

$U_i = 30 \text{ V}$; $I_i = 250 \text{ mA}$; $P_i = 3 \text{ W}$; $L_i \sim 0$; $C_i \sim 0$

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

Responsible person:

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Date of issue: 30.04.2010

Page: 8/8

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Physical Technical Testing Institute
Ostrava-Radvanice



(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 09 ATEX 0004X

(4) Equipment or protective system: **The measuring and control system MPS-XX-NG**

(5) Manufacturer: **TEVEL TEVE VARNOST Elektronika, d.o.o.**

(6) Address: **Borovniko naselje 7, 1412 Kisovec, Slovenia**

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

(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 60079-0:2006; EN 60079-11:2007; EN 50303:2000

(11) Marking of equipment shall contain symbols:

 **I M1 Ex ia I**

(12) This type examination certificate is valid till: **31. 01. 2016**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 31.01.2011



Number of pages: 4
Page: 1/4

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13) **Schedule**

(14) **Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X**

(15) Description of Equipment or Protective System:

The measuring system MPS-XX-NG was supplemented with three sensors and conversion modules, namely oxygen index O_2 , pressure sensor p and differential pressure dp.

The evaluating part, display and interface part mustn't modified.

Equipment and modules marking (plate) – see page 4.

(16) Report No.: 09/004-1

(17) Special conditions for safe use:

The measurement function for explosion protection in accordance with EN 60079-29-1 is not the subject of this EC-Type Examination Certificate.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10).

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 31.01.2011

Page: 2/4

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14)

Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X

(19)

LIST OF DOCUMENTATION

Documentation:

Date:

- List technical documentation MPS-XX-NG - ID dok.: 335001 (4 pages) 03/2010
- Drawings No.: IDi 335405 03/2010
 - ID doc: 335036 06.10.2010
 - ID dok: 335549 06.10.2010
 - ID dok: 335548 06.10.2010
 - ID dok: 335547 06.10.2010
 - ID: 335691 03/2010
 - ID doc: 335091 (2 listy) 02.03.2010
 - ID doc: 335098 (4 listy) 02.03.2010
 - ID: 335000 02/2010
 - ID doc: 335000 02.03.2010
 - ID doc: 335097 02.03.2010
 - ID: 335410 03/2010
 - ID dok: 335553 15.11.2010
 - ID dok: 335146 04.10.2010
 - ID: 335701 03/2010
 - ID doc: 335302 (2 listy) 03.03.2010
 - ID doc: 335108 (4 listy) 03.03.2010
 - ID doc: 335107 03.03.2010
 - ID: 335408 03/2010
 - ID dok: 335046 04.10.2010
 - ID dok: 335553 15.11.2010
 - ID: 335701 03/2010
 - ID doc: 335301 (2 listy) 03.03.2010
 - ID doc: 335208 (4 listy) 03.03.2010
 - ID doc: 335207 03.03.2010

Responsible person:


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Head of certification body



Date of issue: 31.01.2011

Page: 3/4

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14)

Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X

Equipment and modules marking (plate)

Measuring device:

MPS – XX – NG – X.XX.X
A _____
B _____
C _____
D _____

Modules:

MG – XX – NG
E _____

A, E marking indicate type of device (measured gas or other parameters)

- | | | |
|---|----------------------------------|--|
| • 01 – Explosive gases (CH ₄) | • 05 – Oxygen (O ₂) | • 09 – Carbon dioxide (CO ₂ -IR) |
| • 02 – Air flow (v) | • 06 – Carbon monoxide (CO) | • 10 – Differential air pressure (p) |
| • 03 – Temperature (T) | • 07 – Relative humidity (RH) | • 11 – Explosive gases (CH ₄ -IR) |
| • 04 – Level (h) | • 08 – Absolute air pressure (p) | |

B Additional marking indicates configuration of device (signal or component)

- 1 – Analog current output (0,2 mA ÷ 1 mA)
- 2 – Analog current output (4 mA ÷ 20 mA)
- 3 – Output frequency (5 Hz ÷ 15 Hz)
- 4 – Analog voltage output (0 V ÷ 5 V)
- 5 – Serial communication interface (Profibus-RS485)
- 6 – Serial communication interface (CAN)

C Additional marking device regard to digital I/O (relays outputs and digital inputs)

- 00 – without digital I/O
- 01 – 2 relay outputs
- 10 – 2 digital outputs
- 11 – 2 relay outputs a 2 digital inputs

D Additional marking indicates device connection style

- 1 – cable gland
- 2 – cable connector

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 31.01.2011

Page: 4/4

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Physical Technical Testing Institute
Ostrava – Radvanice



**Supplement No. 2 to
EC-Type Examination Certificate**

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

(3) EC-Type Examination Certificate Number:

FTZÚ 09 ATEX 0004X

(4) Equipment or protective system: **The measuring and control system MPS-XX-NG**

(5) Manufacturer: **TEVEL TEVE VARNOST Elektronika, d.o.o.**

(6) Address: **Borovniško naselje 7, 1412 Kisovec, Slovenia**

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

(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:

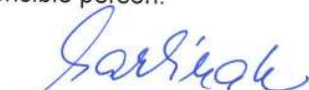
EN 60079-0:2009, EN 60079-11:2007, EN 60079-26:2007, EN 50303:2000

(11) Marking of equipment shall contain symbols:

 **I M1 Ex ia I Ma**

(12) This type examination certificate is valid till: **31.01.2016**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 13.06.2012

Page: 1/3

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tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz



Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14)

Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X

(15) Description of Equipment or Protective System:

The construction of equipment enclosure was modified and so degree of protection was increased to IP 66.

For measurement of CH₄ is used new sensor certified by SIRA (04 ATEX 1357U) that was supplemented with new type of transducer. Also printed circuit board of LCD display was modified.

The about mentioned modification hasn't any influence to safety level device and input/output parameters remain valid without modification.

(16) Report No.: 09/0004/2

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standards mentioned in clause (10) of this supplement according which the new model was verified and in the manufacturer's Instruction for Using - Document No.0017.

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 13.06.2012

Page: 2/3

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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

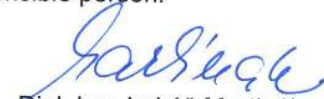
(14)

Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X

(19) List of Documentation:

- [1] List of technical documentation MPS-XX-NG, Date: 11/2011 – 4 sheets
- [2] Drawings No.:
 - ID: 335070, Date: 18.11.2011 – 2 sheets
 - ID: 335071, Date: 18.11.2011 – 2 sheets
 - ID: 335072, Date: 18.11.2011
 - ID: 335073, Date: 18.11.2011
 - ID: 335074, Date: 18.11.2011 – 4 sheets
 - ID: 335670, Date: 11/2011
 - ID: 335671, Date: 11/2011
 - ID: 335160, Date: 11/2011
 - ID: 335161, Date: 16.11.2011
 - ID: 335162, Date: 16.11.2011
 - ID: 335163, Date: 16.11.2011
 - ID: 335164, Date: 16.11.2011
 - ID: 335166, Date: 16.11.2011
 - ID: 335167, Date: 16.11.2011 – 2 sheets
 - ID: 335168, Date: 16.11.2011 – 4 sheets
 - ID: 335169, Date: 16.11.2011
 - ID: 335000, Date: 11/2011
 - ID: 335150, Date: 14.11.2011
 - ID: 335151, Date: 13.11.2011
 - ID: 335152, Date: 11.11.2011
 - ID: 335153, Date: 12.11.2011
 - ID: 335154, Date: 11.11.2011
 - ID: 335155, Date: 12.11.2011
 - ID: 335156, Date: 11.12.2011
 - ID: 335157, Date: 26.05.2009
 - ID: 335158, Date: 15.12.2011

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 13.06.2012

Page: 3/3

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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 09 ATEX 0004X

(4) Equipment or protective system: **The measuring and control system MPS-XX-NG**

(5) Manufacturer: **TEVEL, d.o.o.**

(6) Address: **Borovniko naselje 7, 1412 Kisovec, Slovenia**

(7) This supplement of certificate is valid for:

- modification of certified equipment
- prolongation of certificate validity
- change of name company

(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 the manufacturer shall fulfil before products are placed on market or introduce in service.

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

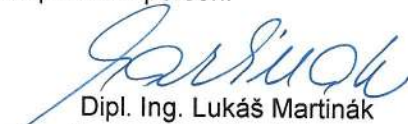
EN 60079-0:2012, EN 60079-11:2012, EN 50303:2000

(11) Marking of equipment shall contain symbols:

 **I M1 Ex ia I Ma**

(12) This type examination certificate is valid till: **25.09.2020**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 25.09.2015

Page: 1/2

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tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz



Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14)

Supplement No. 3 to
EC-Type Examination Certificate N° FTZÚ 09 ATEX 0004X

(15) Description of Equipment or Protective System:

The subject of this supplement is modification of equipment MPS-XX-NG. Equipment MPS-XX-NG is extended by possibility of measure H₂S by electrochemical sensor.

All versions of equipment MPS-XX-NG are in accordance with standards mentioned in clause (10) of this supplement. Validity of certificate is prolonged for next five years. Updated documentation is mentioned in clause (19) of this supplement.

Technical parameters of equipment MPS-XX-NG still without changes.

(16) Report No.: 09/0004-3

(17) Special conditions for safe use: still valid

(18) Essential Health and Safety Requirements:

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

(19) List of Documentation:

Name:	Drawings No.:	Date:	Pages:
Measuring – control unit MPS-XX-NG	335000	18.09.2015	7/308
Measuring – control unit MPS-XX-NG	335000	18.09.2015	10/308
Measuring – control unit MPS-XX-NG	335000	18.09.2015	12/308
Measuring – control unit MPS-XX-NG	335000	18.09.2015	23/308
Measuring – control unit MPS-XX-NG	335000	18.09.2015	26/308
Measuring – control unit MPS-XX-NG	335000	18.09.2015	29/311
Measuring – control unit MPS-XX-NG	335000	18.09.2015	10/311
Measuring – control unit MPS-XX-NG	335000	18.09.2015	201/326
Measuring – control unit MPS-XX-NG	335406	18.09.2015	189/309
Measuring – control unit MPS-XX-NG	335692	18.09.2015	199/324
Electrochemical sensor head CO, H ₂ S	335041	18.09.2015	1/1

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 25.09.2015

Page: 2/2

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Physical Technical Testing Institute
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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 11 ATEX 0186

(4) Equipment or protective system: **Signal Flash light with horn SBH-ia/MPS**

(5) Manufacturer: **TEVEL TEVE VARNOST Elektronika, d.o.o.**

(6) Address: **Borovniko naselje 7, 1412 Kisovec, Slovenia**

(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°:

11/0186 dated 19.04.2012

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

EN 60079-0:2009; EN 60079-11:2007; EN 50303:2000

(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:



I M1 Ex ia I Ma

This EC-Type Examination Certificate is valid till: **09.05.2017**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 09.05.2012

Page: 1/2

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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 11 ATEX 0186**

(15) Description of Equipment or Protective System:

Signal Flash light with horn SBH-ia/MPS is designed for signalisation of hazardous situation or special status.

Maximum input/output parameters:

X1, X2: $U_i = 16 \text{ V}$; $I_i = 2,4 \text{ A}$; $L_i = 0$; $C_i = 0$

$U_o = 5,88 \text{ V}$; $I_o = 3,4 \text{ mA}$; $P_o = 5 \text{ mW}$; $C_o = 100 \mu\text{F}$; $L_o = 1 \text{ H}$

(16) Report No.: 11/0186

(17) Special conditions for safe use: none

(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 instruction for use.

(19) List of Documentation:

[1] Technical documentation, No. ID doc: 36 1001, Date: 11.8.2011 – 3 sheets

[2] Drawings No.:	361003	Date: 01.10.2011
	361004	Date: 01.10.2011
	361005	Date: 01.10.2011
	361007	Date: 06.08.2011
	361008	Date: 10.08.2011
	361009	Date: 10.08.2011
	361010	Date: 10.08.2011
	361012	Date: 10.08.2011
	361017	Date: 10.10.2011
	361020 (2 sheets)	Date: 10.10.2011
	361019	Date: 10.10.2011
	361021	Date: 10.10.2011
	361013	Date: 10.10.2011
	361015	Date: 10.08.2011
	361014	Date: 10.08.2011
[3] Parts list:	361002	Date: 10.08.2011
	361011	Date: 10.08.2011
	361016 (2 sheets)	Date: 10.09.2011
	361018	Date: 10.09.2011

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body

Date of issue: 09.05.2012

Page: 2/2



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