



EC-Type Examination Certificate

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

(3) EC-Type Examination Certificate Number:

FTZÚ 10 ATEX 0141

(4) Equipment or protective system: **Intrinsically safe dual detector PIR type MMVT 12 AM Ex**

(5) Manufacturer: **MM Group, s.r.o.**

(6) Address: **Veveří 20/1378, 735 64 Havířov – Prostřední Suchá, Czech Republic**

(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°

10/0141 dated 30. 07. 2010

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

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

(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.

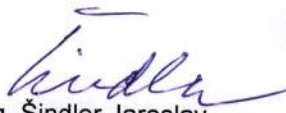
(12) The marking of the equipment or protective system shall include following:

 **II 2G Ex ia IIB T4**

This EC-Type Examination Certificate is valid till: **30. 07. 2015**

Responsible person:

Date of issue: 30.07.2010


Dipl. Ing. Šindler Jaroslav
Head of certification body



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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 10 ATEX 0141**

(15) Description of Equipment or Protective System:

Dual detector (PIR + MW) type MMVT 12 AM Ex is designed for wide application in buildings and outside areas. The commercial detector after modification and supply of input/output parts from intrinsically safe apparatus complies with requirements for hazardous locations zone 1 and areas endanger with explosives V2 (ČSN 33 23 40).

Maximum input parameters:

+U, -U: $U_i = 13,02 \text{ V}$; $I_i = 125 \text{ mA}$; $P_i = 0,407 \text{ W}$; $L_i = 0$; $C_i = 2 \text{ } \mu\text{F}$ ($C_{eq} < 1000 \text{ } \mu\text{F}$)

Tamper; Mask; Relay: $U_i = 15 \text{ V}$; $I_i = 20 \text{ mA}$; $L_i = 0$; $C_i = 0$


(16) Report No.: 10/0141 (29 pages)

(17) Special conditions for safe use: none

(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: 30.07.2010

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Physical Technical Testing Institute
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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 10 ATEX 0141**

(19)

LIST OF DOCUMENTATION

<i>Documentation:</i>	<i>Date:</i>
• Instruction for use MMVT Ex (7 pages + 1)	2010
• Drawings No.: MMV 03-00-00	20.04.2010
MMV 03A-00-00	20.04.2010
MMV 03B-00-00	20.04.2010
MMV 03C-00-00	20.04.2010
MMV 04-00-00	20.04.2010
MMV 05-00-00	20.04.2010
MMV 06-00-00	20.04.2010
MMV 07-00-00	20.04.2010
MMV 08-00-00	20.04.2010
MMV 10-00-00	20.04.2010
• Safety analysis: MMV 11-00-00	20.04.2010
MMV 12-00-00	20.04.2010

Responsible person:


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Head of certification body



Date of issue: 30.07.2010

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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 10 ATEX 0141

(4) Equipment or protective system: **Intrinsically Safe Dual Detector PIR type MMVT 12 AM Ex**

(5) Manufacturer: **MM GROUP, s.r.o.**

(6) Address: **Úzká 1378/13, Prostřední Suchá, 735 64 Havířov, Czech Republic**

(7) This supplement of certificate is valid for:

- prolongation of certificate validity
- modification of apparatus marking
- application of new standards
- change of company address

(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 fulfill before products are placed on market or introduced 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 IIB T4 Gb**

(12) This type examination certificate is valid till: **31.12.2020**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 15.12.2015

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Physical Technical Testing Institute
Ostrava – Radvanice

(13)

Schedule

(14)

Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 10 ATEX 0141

(15) Description of Equipment or Protective System:

Technical parameters and construction of apparatus remain unchanged.

The address of the manufacturer of the apparatus have been changed from Veverí 20/1378, 735 64 Havířov-Prostřední Suchá, Czech republic to **Úzká 1378/13, Prostřední Suchá, 735 64 Havířov, Czech Republic.**

(16) Report No.: 10/0141/1

(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.

(19) List of Documentation:

<i>Document name / Drawing:</i>	<i>Date:</i>	<i>Nr. of Pages:</i>
Declaration of Manufacturer	27.10.2015	1
Technical Condition, version 2	27.10.2015	5
MMV 10-00-01	27.10.2015	1

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 15.12.2015

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