



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 10 ATEX 0139X

(4) Equipment or protective system: **Flameproof distribution box type X450DA2/d**

(5) Manufacturer: **GENERI s.r.o.**

(6) Address: **Uničovská 50, 787 01 Šumperk, 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°

10/0139 dated 14 July 2010

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

EN 60079-0:2009; EN 60079-1:2007; EN 60079-31:2009;

(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 M2 Ex d I Mb



II 2G Ex d IIB T6 Gb



II 3D Ex t IIB T 71°C Dc IP 54

This EC-Type Examination Certificate is valid till: **30.06.2015**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 14.06.2010

Number of pages: 2
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This certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This certificate may only be reproduced in its entirety and without any change, schedule included.



Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 10 ATEX 0139X**

(15) Description of Equipment or Protective System:

A type X450DA2/d flameproof distribution box in mode Ex d is made from welded steel sheets with inner volume $> 2000 \text{ cm}^3$. The distribution box consists of two parts of enclosure – main box and lid fastened by screws (acc ISO 4762) together. The sight $\phi 150 \times 20 \text{ mm}$ from toughened glass can be cemented in the lid.

Technical parameters:

$P_{zmax} < 50 \text{ W}$

(16) Report No. :10/0139

(17) Special conditions for safe use:none

Maximum design gaps of flameproof joints are smaller than maximum permitted gaps according to standard. Verified values of design gaps are mentioned in documentation, a list of which is given in clause (19) of this certificate.

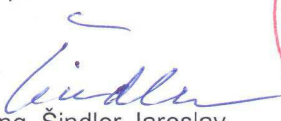
(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (9) of this certificate.

(19) LIST OF DOCUMENTATION

- | | | |
|-------------------|---------------|----------------------|
| ➤ User manual No. | N740058 rev.2 | valid of: 01.07.2010 |
| ➤ Drawing No. | G-2-902835/1 | dated 03.06.2010 |
| | G-2-902835/2 | dated 03.06.2010 |

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 14.06.2010

Number of pages: 2

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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 0139X

(4) Equipment or protective system: **Explosion proof distribution box of type X450DA2/d**

(5) Manufacturer: **GENERI, s.r.o.**

(6) Address: **Uničovská 50, 787 01 Šumperk, Czech Republic**

(7) This supplement of certificate is valid for: - modification of apparatus marking
- prolongation of certificate validity

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, a list of which is mentioned in the 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 the market or introduce in service.

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

EN 60079-0:2012; EN 60079-1:2014; EN 60079-31:2014

(11) Marking of equipment shall contain symbols:


 **I M2 Ex db I Mb**

 **II 2G Ex db IIB T6 Gb**

 **II 3D Ex tc IIB T71°C Dc**

(12) This type examination certificate is valid till: **30.09.2020**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 04.09.2015

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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 0139X

(15) Description of Equipment or Protective System:

a) Explosion proof distribution box of type X450DA2/d is recertified according to standards EN 60079-0:2012; EN 60079-1:2014; EN 60079-31:2014.

d) After installation of enclosure apparatus at less 20% of each cross-section area remain free.

List of enclosure apparatus is mentioned in Annex No. 1 of documentation of certification No. G-2-902835/1/R1 (G-2-902835/2/R1) dated 07.08.2015.

Equipment parameters are without any changes.

(16) Report No.: 10/0139-1

dated 03.09.2015

(17) Special conditions for safe use:

17.1 Maximum design gaps of flameproof joints are smaller than maximum permitted gaps according to standard. Verified values of design gaps are mentioned in documentation, a list of which is given in clause (19) of this supplement.

17.2 Cable glands have to be certified according to the standards mentioned in EN 60079-0:2012, EN 60079-1:2014 or EN 60079-31:2014.

17.3 Using of equipment for fixed installations only – other information in user manual.

(18) Essential Health and Safety Requirements:


Covered by standards mentioned in (10) of this certificate.

(19) List of Documentation:

Dated

- | | | |
|------------------------------|---------------|------------|
| • Certification drawing No.: | G-2-902835/1 | 07.08.2015 |
| • Certification drawing No.: | G-3-902835/2 | 07.08.2015 |
| • User manual No.: | N740058 rev.3 | 01.07.2015 |

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 04.09.2015

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Physical-Technical Testing Institute
Ostrava - Radvanice






(1) **Supplementary EU - Type Examination Certificate No.2**

- (2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

- (3) EU - Type Examination Certificate number:

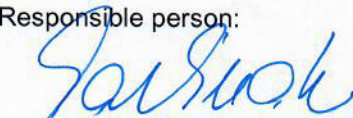
FTZÚ 10 ATEX 0139X

- (4) Product: **Explosion-proof steel switchboard, type X450DA2/d**
- (5) Manufacturer: **GENERI, s.r.o.**
- (6) Address: **Uničovská 50, 787 01 Šumperk, Czech Republic**
- (7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 10 ATEX 0139X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, 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 Annex II to the Directive.
- (9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.
- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013; EN 602079-1:2014; EN 60079-31:2014
- (11) The marking of the product shall include the following:

 **I M2 Ex db I Mb**
 **II 2G Ex db IIB T6 Gb**
 **II 3D Ex tc IIB T71°C Dc**

- (12) This certificate is valid till: **31.03.2025**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 04.03.2020

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**Physical-Technical Testing Institute
Ostrava - Radvanice**

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 2
to FTZÚ 10 ATEX 0139X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Prolongation of certificate validity.

Technical parameters and construction remain unchanged.

(16) Report Number.: 10/0139/2

(17) Specific Conditions of Use:

1. Verified values of the maximum gaps and minimum constructional length of flameproof joints of this enclosure are different from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.
2. Cable glands have to be certified according to the standards mentioned in EN 60079-0:2012 and EN 60079-1:2014 or EN 60079-31:2014.
3. After installation of enclosure apparatus at least 20% of each cross-section area remain free.
4. Fasteners with a minimum tensile strength 8.8 shall be used for mounting of the flame proof enclosure parts.


(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number	Sheets	Revision	Date	Description
N740058	3	4	28.01.2020	User's manual
G-4-902835/3	1	-	28.01.2020	Drawing
G-4-902835/4	1	-	28.01.2020	Drawing

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 04.03.2020

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