Physical Technical Testing Institute

Ostrava-Radvanice

(1)

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 02 ATEX 0199U

(4) Component: **Explosion proof fuse type XFU . . .**

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

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

(7) This Component 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°

02/0199 dated 8th September 2004

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

EN 50014:1997+A1+A2; EN 50019:2000; EN 50028:1987; EN 50281-1-1:1998;

(10) The sign „U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EC-TYPE EXAMINATION CERTIFICATE relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(12) The marking of the component shall include following:

Ex I M2 / II 2GD EEx me I/II T6

This EC-Type Examination Certificate is valid till: **30.09.2009**

Responsible person:

Mr. Jaroslav Šindler
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 10.09.2004

Number of pages: 1/3

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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) EC-Type Examination Certificate N° FTZÚ 02 ATEX 0199U

(15) Description of Component:

Explosion proof fuse type XFU... is designed as Ex-component. The fuse which is designed as EEx m II (encapsulation "m") is mounted on the base plate installed inside of enclosure of EEx „e" resp. EEx „n" designe.

Basic technical data:

Degree of protection:	**IP 20**
Connecting conductor cross-section:	**0,35 to 2,5 mm^2**
Max. number of conductors at terminal:	**2**
Nominal voltage:	**110 V DC, 250 V AC**
Nominal current:	**50 mA to 10 A** (see to page 3 – Type key)
Min. ambient temperature:	**-50°C**

At T_{amb} = 60°C is max. cover temperature of fuse 83°C

(16) Report No. : 02/0199

(17) Schedule of Limitations:

-50°C ≤ Tamb ≤ +60°C

(18) Essential Health and Safety Requirements:

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

(19) LIST OF DOCUMENTATION

- Drawing No. G-3-900011
- Label No. G-4-190102_XFU_ATEX
- User´s instruction No. N 740054 - ATEX
- Data sheet of tubefuse 5x20 mm
- Data sheet of non-reversible fuse

Responsible person:

Mr. Jaroslav Šindler
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

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(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 02 ATEX 0199U**

(19) **TYPE KEY**

X FU . . .

Breaking capacity:

H	high	(1500 A)
E	increased	(150 A)
L	low	(35 A)

Nominal current:

50	50 mA
63	63 mA
80	80 mA
100	100 mA
125	125 mA
160	160 mA
200	200 mA
250	250 mA
315	315 mA
400	400 mA
500	500 mA
630	630 mA
800	800 mA
1	1 A
1,25	1,25 A
1,6	1,6 A
2	2 A
2,5	2,5 A
3,15	3,15 A
4	4 A
5	5 A
6,3	6,3 A
8	8 A
10	10 A

Parameter:

FF	very quickly appried
F	quickly appried
M	stardard
T	delayed
TT	very delayed

Fuse symbol (by IEC 750)

Marking of the type of the explosion construction

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

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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 02 ATEX 0199U

(4) Component:: **Explosion proof fuse type XFU . . .**

(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 certified apparatus
- new model (variant) – extension of series
- prolongation of validity

(8) Modification of certified component 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 relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfil by satisfying of following standards.

EN 60079-0:2009 ; EN 60079-7:2007 ; EN 60079-18:2004

(11) Marking of equipment shall contain symbols:

I M2 Ex ema I Mb

II 2G Ex ema II Gb

(12) This type examination certificate is valid till: **31.05.2015**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 14.05.2010

Number of pages: 2
Page: 1/2

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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) # Supplement No. 1 to EC-Type Examination Certificate N° FTZÚ 02 ATEX 0199U

(15) Description of Component:

a) Explosion proof fuse type XFU . . .is recertified according standards EN 60079-0:2009; EN 60079-7:2007 and EN 60079-18:2004.
b) Modification Tamb : -60°C ÷ +60°C
c) Enlargement about new current variant 12,5 A a 16 A
d) Enlargement about new sealing compound.

(16) Report No. : 02/0199-1

(17) Schedule of limitations:

-60°C ≤ Tamb ≤ +60°C, max. T= 80°C

(18) Essential Health and Safety Requirements:

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

(19) LIST OF DOCUMENTATION

- Drawing No. G-3-900011 dated 04.03.2010
- User´s instruction No. N 740054 – ATEX dated 04.03.2010
- Data sheet of tubefuse 5x20 mm
- Data sheet of non-reversible fuse.

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 14.05.2010

Number of pages: 2
Page: 2/2

Physical Technical Testing Institute
Ostrava – Radvanice

(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 02 ATEX 0199U

(4) Component: **Explosion proof fuse type XFU . . .**

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

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

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

(8) Modification of certified component and any of its approved variants are specified in documentation, a list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

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

EN 60079-0:2012; EN 60079-7:2007; EN 60079-18:2009

(11)Marking of component shall contain symbols:

I M2 Ex e ma I Mb

II 2G Ex e ma IIC Gb

(12) This type examination certificate is valid till: **30.06.2020**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026

Date of issue: 02.06.2015

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(13) **Schedule**

(14) # Supplement No. 2 to EC-Type Examination Certificate N° FTZÚ 02 ATEX 0199U

(15) Description of Component:

Explosion proof fuse type XFU ... is recertified according to standards EN 60079-0:2012; EN 60079-7:2007 and EN 60079-18:2009.

Equipment parameters are without any changes.

(16) Report No.: 02/0199-2 dated 01.06.2015

(17) Schedule of Limitations:

-60°C ≤ Tamb ≤ +60°C; max. T= +80°C

(18) Essential Health and Safety Requirements:

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

(19) List of Documentation:

		Dated
• Certification drawing No.:	G-3-900011	22.04.2015
• User's manual No.:	N740054, 2nd Edition	01.06.2015

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 02.06.2015

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Physical-Technical Testing Institute
Ostrava - Radvanice

(1) Supplementary EU - Type Examination Certificate No.3

(2) **Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres (Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 02 ATEX 0199U

(4) Product: **Explosion proof fuse type XFU...**

(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 02 ATEX 0199U 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 60079-7:2015, EN 60079-18:2015

(11) The marking of the product shall include the following:

Ex I M2 Ex eb ma I Mb -60°C ≤ Tserv ≤ +60°C

Ex II 2G Ex eb ma IIC Gb -60°C ≤ Tserv ≤ +60°C

(12) This certificate is valid till: **31.12.2025**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 04.12.2020

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(13) **Schedule**

(14) # Supplementary EU - Type Examination Certificate No. 3 to FTZÚ 02 ATEX 0199U

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Evaluation according to the newest standards: EN 60079-7:2015 and EN 60079-18:2015.
- Prolongation of certificate validity.

The technical parameters and construction component remain unchanged.

(16) Report Number: 02/0199/3

(17) Schedule of Limitations:

1. Ambient temperature: -60°C ≤ Tserv ≤ +60°C.

(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	Issue	Sheets	Date	Description
N740054	3	2	17.09.2020	User manual
G-3-900001/2	--	1	17.09.2020	Drawing

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 04.12.2020

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