



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 03 ATEX 0226

- (4) Equipment or protective system: **Surge Protection, model X.FV./..., X.FV./.../JB**
(5) Manufacturer: **GENERI, spol. 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°
03/0226 dated October 2003

- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 50014:1997+A1+A2 EN 50 019:2000 EN 50020:2002
EN 50 028:1994 EN 50 281-1-1:1998
(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 2GD EEx em II T6 T 50°C
 II 2GD EEx emia IIC T6 T 50°C

This EC-Type Examination Certificate is valid till: **31.10.2008**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: **13.10.2003**

Number of pages: **1/3**
Annex No. **1 1/1**

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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 03 ATEX 0226**

(15) Description of Equipment or Protective System:

The surge protection, model X.FV./... and X.FV./.../JB are designed for protection of data and measuring lines of telecommunication interface and electrical devices against pulse over voltage.

The moduls of surge protection (manufactured by SALTEK) are installed on the PCB. They are moulded by compound in accordance with the standard for encapsulation "m".

The model X.FV./... are designed for routine applications, the model X.FV./.../JB are designed only for intrinsically safe circuits.

The moduls are installed in the certified enclosures with type of protection EEx e II.

The range of ambient temperature "Ta" from -55°C to +70°C is the maximum. The actual range of "Ta" depend on used components and must be marked on the enclosure if they are designed for other range of temperature than -20°C to +40°C.

(16) Report No. : 03/0226

42 pages

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

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

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 13.10.2003

Number of pages: 2/3
Annex No. 1 1/1

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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 03 ATEX 0226**

(19)

LIST OF DOCUMENTATION

- Instruction manual No. N 740009-ATEX dated 1.6.2003
- Instruction manual No. N 740009/JB-ATEX
- Drawing fy GENERI No.: G-3-902703
- The label of manufactures
 - X12FV1/.R1 drawing No. G-4-190009/1
 - X12FV1/.LA1 drawing No. G-4-190009/2
 - X12FV1/.LB1 drawing No. G-4-190009/3
 - X12FV1/.R1/JB drawing No. G-4-190009/4
 - X14FV1/.R2 drawing No. G-4-190010/1
 - X14FV1/.LA2 drawing No. G-4-190010/2
 - X14FV1/.LB2 drawing No. G-4-190010/3
 - X14FV1/.RLA2 drawing No. G-4-190010/4
 - X14FV1/.RLB2 drawing No. G-4-190010/5
 - X14FV1/.LALB2 drawing No. G-4-190010/6
 - X14FV1/.R2/JB drawing No. G-4-190010/7
- Technical data of compounds HERBERTS E8704 FW-W
- Technical data of compound TEDISTAC D D 45003 (502)
- Catalogue list of suppressor GM Electronic
- Catalogue list of lightning arrester ENIKA
- Drawings fy SALTEK No.:
 - CLEX-XXX/R1,L,L2 29.05.2001 DPS 5009v3_24V
 - CLEX-XXX/1Y 16.05.2001 DPS 5008v3
 - CLEX-XXX/1Y 16.05.2001 DPS 5008v3
 - CLEX-XXX/1Y 16.05.2001 DPS 5009v3
 - CLEX-XXX/1Y 16.05.2001 DPS 5009v3
 - CLEX-XXX/1Y 16.05.2001 DPS 5009v3
 - CLEX-XXX/2R,L,L2 17.05.2001 DPS 5140v1
 - CLEX-XXX/2R,L,L2 29.05.2001 DPS 5140v1-24
 - CLEX-XXX/2Y 17.05.2001 DPS 5139v1
 - CLEX-XXX/2Y 17.05.2001 DPS 5139v1
 - CLEX-XXX/2Y 17.05.2001 DPS 5140v1
 - CLEX-XXX/2Y 17.05.2001 DPS 5140v1
 - CLEX-XXX/2Y 17.05.2001 DPS 5140v1

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**Physical Technical Testing Institute
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(13)

Annex No. 1

(14) **EC-Type Examination Certificate N° FTZÚ 03 ATEX 0226**

MARKING OF THE TYPE OF SURGE PROTECTION:

X	.	FV	.	/	.	.	.	/	JB	
									Type	JB intrinsically safe (only for EEx em ia version)
									Number of protected lines:	1 (1-modul set) 2 (2- modul set) 3 (3x1- modul set) 4 (2x2- modul set)
									Coupler:	R rezistivity (Imax = 60 mA) LA induction 1 (Imax = 370 mA) LB induction 2 (Imax = 2 A)
									Nominal voltage	06 6V DC 12 12V DC 24 24V DC 48 48V DC
									Material of enclosure:	1 plastic (polyester – PES) 2 stainless steel plate
									Marking of the surge protection:	FV (acc EN 61346-1)
									Dimension of the type of enclosure:	12 80x75x55 mm plastic 14 160x75x55 mm plastic 02 ATEX 0201 20 122x120x90 mm plastic 02 ATEX 0075U 72 80x75x75 mm plastic 74 160x75x75 mm plastic 02 ATEX 0201 320 150x150x90 mm stainless steel 321 200x150x90 mm stainless steel 02 ATEX 00074U 323 350x150x90 mm stainless steel
									Marking of explosion proof type of the surge protection:	X