



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 02 ATEX 0198

(4) Equipment or protective system: **Explosion proof control and distribution box,
type X103HM, X103HM/d, X103HM/DA**

(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°

02/0198 dated 15. September 2002

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

EN 50014:1997+A1, A2 EN 50018:2000 EN 50019:2000 EN 50281-1-1:1998

(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:

(13)



II 2G/3D EEx de IIB T6 T 63°C

for type X103HM a X103HM/DA



II 3GD EEx d IIB T6 T 63°C

for type X103HM/d

This EC-Type Examination Certificate is valid till: **30.09.2007**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 18.09.2002

Number of pages: 1/3

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 02 ATEX 0198**

(15) Description of Equipment or Protective System:

Explosion-proof control and distribution boxes of the type X103HM, X103HM/d and X103HM/DA are produced of an Al alloy in accordance with Czech standard ČSN 424331 (as regards their weight they contain less than 6% of magnesium) and their surfaces are finished with a powder coating paint. The instrument part of the box (space "S") is made as flameproof enclosure EEx "d" and the terminal part of the box (space "T") has type of protection increased safety EEx "e" (variant 1).

Spaces EEx "d" and EEx "e" are mutually galvanically interconnected by means of certified flameproof bushings Ex d IIB or IIC. In certain cases it is possible to place the terminal blocks in the part where there are usually the instruments in the flameproof enclosure (space "S") and el. instruments themselves in the part where there are usually terminal blocks – enclosure with type of protection increased safety (space "T") – variant 2.

Of crucial importance is the location of certified increased safety cable entries EEx e II which determines which part of the box is enclosure with type of protection increased safety EEx "e" and which part is the flameproof enclosure EEx "d" without cable entries. It is possible to install any instruments in the box, this is only limited by the power loss of 70 W in the space "S".

The space "S" has volume greater than 2000 cm³, the space "T" has volume less than 2000 cm³.

Boxes of the type X103HM/DA contain, in addition, switching and regulating thermostats whose capillary tubes pass through the wall of the flameproof enclosure via a special encapsulated bushing.

The control and distribution boxes of the type X103HM/d are designed as equipment with a direct entry into the flameproof enclosure and are installed with certified flameproof cable entries (glands) of min. EEx d IIB.

(16) Report No. : 02/0354 dated

(17) Special conditions for safe use: --

(18) Essential Health and Safety Requirements:

18.1 There are covered by standards see art. (9).

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 18.09.2002

Number of pages: 2/3

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 02 ATEX 0198**

(19)

LIST OF DOCUMENTATION

- Drawing for certification G-2-902812/2
- Documentation for certification: Description to Drawing for certification G-2-902812/2
- Drawing for certification G-2-902812/3
- Documentation for certification: Description to Drawing for certification G-2-902812/3
- Drawing of type plate G-4-190019/1
- Drawing of type plate G-4-190019/2
- Drawing of type plate G-4-190019/3
- Drawing of capillary case (tube) G-4-210004
- Drawing inspection window G-4-555000
- Drawing inspection window G-4-555005
- User's instruction N740021/1
- User's instruction N740021/2
- User's instruction N740021/3