



## 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 07 ATEX 0124X**

(4) Equipment or protective system: **Transponder type ID103G**

(5) Manufacturer: **Trovan, Ltd.**

(6) Address: **Gruenguertelstrasse 12, 509 96 Koeln, Germany**

(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°

**07/0124 dated 01. 11. 2007**

(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 IIA T4**

This EC-Type Examination Certificate is valid till: **02. 11. 2012**

Responsible person:

Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 02.11.2007

Number of pages: 3  
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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 07 ATEX 0124X**

(15) Description of Equipment or Protective System:

The intrinsically safe Transponder type ID103G is used for the marking of equipment. The device consist of a small glass tube with electronics encapsulated in a protecting plastic case. The transponder is activated by an external magnetic field generated by the antenna which may be of type Trovan ANT-610 or ANT-612 and then sends a response signal.

Technical data:

Operating frequency:  $f = 125 \pm 25$  kHz

(16) Report No. : 07/0124

(17) Special conditions for safe use:

17.1 The antenna used for activation of transponders must only be of types mentioned in (15) with the RF radiation power not exceeded 6 W.

17.2 Ambient temperature range:  $T_a = -20^\circ\text{C}$  to  $+75^\circ\text{C}$

(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:



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Head of certification body

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(13)

Schedule

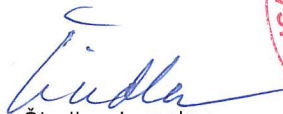
(14) EC-Type Examination Certificate N° FTZÚ 07 ATEX 0124X

(19)

LIST OF DOCUMENTATION

<i>Documentation.:</i>	<i>Date of verification:</i>
• ID103G Data Sheet	01.11.2007
• Trovan ID-103 technical data	01.11.2007
• GLASS TAG Ø 3.15 x13.3 drawing No. 3-9911	01.11.2007
• Protecting case assembly drawing	01.11.2007
• EM4100 data sheet (9 pages)	01.11.2007

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