



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 11 ATEX 0177X

(4) Equipment or protective system: **RFID Tag type**

(5) Manufacturer: **HID Global Malaysia**

(6) Address: **No 5, Jalan Dawai 1/1, Kawasan Perindustrian Tampoi, Johor Bahru,
Johor 81100, Malaysia**

(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°

11/0177 dated 05.12.2011

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

EN 60079-0:2009; 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 T5 Gb**

This EC-Type Examination Certificate is valid till: **19.12.2016**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: **19.12.2011**

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 11 ATEX 0177X**

(15) Description of Equipment or Protective System:

The intrinsically safe RFID Glass Tag Low Frequency family is used for the identification of items and animals. The device consist of a glass tube with a RFID chip connected to a wire antenna wound around a ferrite rod core and encapsulated in a silicone potting agent for mechanical stability. The transponder is passive, which means that he will get the energy from the interrogator magnetic field and send its response back.

Technical data:

Operating frequency: $f = 125 \text{ kHz to } 134,2 \text{ kHz}$
Technology: Hitag S, Hitag u, EM4305, EM4200, EM4102, EM4450, Q5
Dimension: Diameter $\varnothing 1.4 \text{ to } 4 \text{ mm}$
Length 8 to 34 mm

(16) Report No.: 11/0177

(17) Special conditions for safe use:

- 17.1 The antenna used for activation of transponders must only be with the RF radiation power not exceeded 6 W.
17.2 Ambient temperature range: $T_a = -20^\circ\text{C to } +70^\circ\text{C}$

(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 manufacturer's instruction for use.

(19) Documentation:

	Date:
1. Technical documentation CLF 2.19.5.37 (4 pages)	19.01.2011
2. Technical documentation CLF 2.19.5.24 (4 pages)	14.02.2011
3. Technical documentation CLF 2.19.5.51 (5 pages)	06.12.2011
4. Drawings No.:	
3-9899 C (1 sheet)	13.10.2005
3-24369 A (1 sheet)	13.04.2011
3-25630 A (1 sheet)	16.03.2011
3-24105 (1 sheet)	11.06.2008
3-20889 (1 sheet)	26.07.2001
3-21679 A (1 sheet)	26.08.2003
3-22316 (1 sheet)	18.06.2004
3-22097 (1 sheet)	29.01.2004

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