



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 0306X

(4) Equipment or protective system: **Model DMD 333H Ex Differential Pressure Transmitter**

(5) Manufacturer: **BD SENSORS s.r.o.**

(6) Address: **Hradištská 817, 687 08 Buchovice, 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°

07/0306 dated 19. 12. 2007

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

EN 60079-0 : 2006; EN 60079-11 : 2007; EN 60079-26 : 2004

(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 1/2G Ex ia IIC T4**

This EC-Type Examination Certificate is valid till: **19. 12. 2012**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 19.12.2007

Number of pages: 4
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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 07 ATEX 0306X**

(15) Description of Equipment or Protective System:

The Model DMD 333H Ex Differential Pressure Transmitter is designed to convert a pressure signal into an electrical signal $4 \div 20$ mA.

The apparatus comprises several printed circuit boards a sensor and an optional liquid crystal display, all housed in a light alloy enclosure with the exception of the sensor which is mounted inside of a stainless steel body. One of the enclosure cover contains a glass window to enable viewing of the LCD.

The device is allowed to be installed in the partition between the hazardous areas of category 1G and category 2G whereas only the internal space of pressure sensor is of category 1G (Zone 0) and the head of apparatus with electronics must be placed in Zone 1 or Zone 2.

The two wire electrical connection is made via integral screw terminals.

Input parameters:

$U_i = 28$ V; $I_i = 93$ mA; $P_i = 660$ mW; $C_i = 26,4$ nF; $L_i = 0$

(16) Report No. : 07/0306

(17) Special conditions for safe use:

Ambient temperature: T_a -20°C to +65°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:

Date of issue: 14.12.2007


Dipl. Ing. Šindler Jaroslav
Head of certification body



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(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 07 ATEX 0306X

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LIST OF DOCUMENTATION

Documentation:

Date of verification:

• Installation manual (7 pages)	19.12.2007
• Technical parameters, data sheet (4 pages)	19.12.2007
• User instructions DMD 333H	19.12.2007
• Drawings No.: TA.600.702	19.12.2007
TA.600.701	19.12.2007
TA.600.703	19.12.2007
51.010.000	19.12.2007
51.020.011	19.12.2007
51.045.000	19.12.2007
51.100.700_a	19.12.2007
51.100.700_b	19.12.2007
51.101.700_a	19.12.2007
51.101.700_b	19.12.2007
51.110.700	19.12.2007
51.111.700	19.12.2007
51.120.700	19.12.2007
51.130.700	19.12.2007
51.131.700	19.12.2007
51.200.AMX	19.12.2007
TA.103.001	19.12.2007
TA.103.002	19.12.2007
TA.103.003	19.12.2007
TA.103.004	19.12.2007
TA.103.005	19.12.2007
TA.103.006	19.12.2007
TA.103.007	19.12.2007
TA.103.010	19.12.2007

Responsible person:

Date of issue: 19.12.2007


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Schedule

(14) EC-Type Examination Certificate N° FTZÚ 07 ATEX 0306X

(19)

LIST OF DOCUMENTATION

Documentation:

Date of verification:

• Drawings No.:	ELI 15-4 Schematic diagram	19.12.2007
	ELI 15-4 PCB Layout	19.12.2007
	ELI 15-4 Parts list	19.12.2007
	ELI 15-5 Schematic diagram	19.12.2007
	ELI 15-5 PCB Layout	19.12.2007
	ELI 15-5 Parts list	19.12.2007
	ELI 15-6 Schematic diagram	19.12.2007
	ELI 15-6 PCB Layout	19.12.2007
	ELI 15-6 Parts list	19.12.2007
	ELI 16-4 Schematic diagram	19.12.2007
	ELI 16-4 PCB Layout	19.12.2007
	ELI 16-4 Parts list	19.12.2007
	ELI 26_4 Schematic diagram	19.12.2007
	ELI 26_4 PCB Layout	19.12.2007
	ELI 26_4 Parts list	19.12.2007
	ELI 26_4 PCB	19.12.2007
	ELI 26_4 PCB - middle layer	19.12.2007
	ELI 30_2 Schematic diagram	19.12.2007
	ELI 30_2 PCB Layout	19.12.2007
	ELI 30_2 Parts list	19.12.2007
	ELI 30_2 PCB	19.12.2007
	ELI 30_2 PCB - middle layer	19.12.2007
	DMD333H - description	19.12.2007
	DMD333H_Ex - description	19.12.2007
	BA_Ex_DMD333H_cz - manual Ex	19.12.2007
	DMD333H_cz - datasheet	19.12.2007

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