(1) # EC-Type Examination Certificate

(2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 94/9/EC**

(3) Examination certificate number: **SEV 11 ATEX 0129**

(4) Equipment: Pressure transmitters type PBMX xxx, PBMN xxx, PBMH xxx, PSMX xxx resp. PSMN xxx

(5) Manufacturer: Baumer Electric AG

(6) Address: Hummelstrasse 17, CH-8500 Frauenfeld

(7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Electrosuisse SEV, notified body No. 1258 in accordance with article 9 of the Council Directive of the European Communities of 23 March 1994 (94/9/EC), certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment or protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The results of the examination are recorded in confidential report no 10-IK-0369.02

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-0:12 **EN 60079-11:12** **EN 60079-26:07**

(10) If the sign «X» is placed after the certificate number, it indicates that the equipment or protective system is subjected to special conditions for safe use specified in the schedule to this certificate.

(11) This examination certificate relates only to design and construction of the specified equipment in accordance with the directive 94/9/EC. Further requirements of this directive apply to the manufacturing process and the placing on the market of the equipment.

(12) The marking of the equipment shall include the following:

See page 3 of 3

Electrosuisse
Notified Body ATEX

Martin Plüss
Product Certification

SWISS CERTIFICATION SCES 0 035

Fehraltorf, 2013-02-11

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(13) # Appendix

(14) **EC-Type Examination Certificate**

(15) Description of the equipment

All PBMX/PSMX/PSMN/PBMN/PBMH pressure transmitters are designed so that a sensor element converts the physical quantity pressure into an electrical quantity. The sensor element is contained in a metal pressure connection or metal enclosure. The signal generated by the sensor element is converted into a process signal of 4-20mA by the integrated electronics. The electronics are silicone encapsulated and protected by a metal enclosure. Industrial connectors or cable versions and a field housing are available as an output connection.
This product series is intended for use in numerous areas including industry, energy supply and water treatment as well as vehicle construction and shipbuilding, where potentially explosive dust atmospheres make the use of these pressure transmitters necessary.

The pressure transmitters must be connected via a zener barrier with the indicated characteristic values and under the specified ambient and mounting conditions.

Ratings

Input and supply circuits — with type of protection intrinsic safety Ex ia IIC

Only for connection to a certified intrinsically safe circuit

Maximum values:

Ui	≤	30 V	
Ii	≤	100 mA	
Pi	≤	750 mW	
Ci	=	31 nF	(effective internal capacitance)
Li	=	3 µH	(effective internal inductance)

Customer-specific cables used have the following parameters:

Cc	=	0.12 nF/m	(effective capacitance)
Lc	=	1.1 µH/m	(effective inductance)

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Ex classification:

- For type PBMX xxx, PBMN xxx or PBMH xxx for version with M12 connector or with non-detachable cable or for type PBMN xxx or PBMH xxx for version with field housing

  II 1G Ex ia IIC T4/T6 Ga (for pressure transmitters without cooling neck)
  II 1G Ex ia IIC T3/T4/T6 Ga (for pressure transmitters with cooling neck)

- For type PSMX xxx or PSMN xxx with non-detachable cable

  II 1G Ex ia IIC T4/T6 Ga

- PBMX xxx, PBMN xxx or PBMH xxx for version with DIN connector;

  II 1/2G Ex ia IIC T4/T6 Ga/Gb (for pressure transmitters without cooling neck)
  II 1/2G Ex ia IIC T3/T4/T6 Ga/Gb (for pressure transmitters with cooling neck)

- Only PBMX xxx, PBMN xxx or PBMH xxx all versions

  II 1D Ex ia IIIC T107°C IP6X Da

(16) Test Report 10-IK-0369.02

(17) Special conditions for safe use
none

(18) Fundamental essential health and safety requirements
Fulfilled by the standards applied

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