IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SEV 22.0006** Page 1 of 3 Certificate history:

Status: **Current** Issue No: 0

Date of Issue: 2022-01-27

Applicant: **Baumer Electric AG**
Hummelstrasse 17
8501 Frauenfeld
Switzerland

Equipment: **Pressure transmitter, Type: PBMX xxx, PBMN xxx, PBMH xxx, PSMX xxx resp. PSMN xxx**

Optional accessory:

Type of Protection: i

Marking:

- 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

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

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

  Ex ia IIC T4/T6 Ga

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

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

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

  Ex ia IIIC T_{200}107 °C Da

Approved for issue on behalf of the IECEx Certification Body: **Martin Plüss**

Position: **Manager Product Certification**

Signature: (for printed version)

Date: 2022-01-27

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Eurofins Electric & Electronic Product Testing AG
Luppmenstrasse 3
8320 FEHRALTORF .
Switzerland

eurofins | E&E

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Date of issue: 2022-01-27 Issue No: 0

Manufacturer: **Baumer Electric AG**
Hummelstrasse 17
8501 Frauenfeld
Switzerland

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26:2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

CH/SEV/ExTR22.0006/00

Quality Assessment Report:

CH/SEV/QAR21.0005/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Pressure transmitter, Type: PBMX xxx, PBMN xxx, PBMH xxx, PSMX xxx resp. PSMN xxx

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

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Rating:
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)

SPECIFIC CONDITIONS OF USE: NO