

[1] **EC-TYPE EXAMINATION CERTIFICATE**

according to Directive 94/9/EC, Annex III

(Translation)



[2] Equipment and Protective Systems intended for use in
Potentially Explosive Atmospheres, Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **IBExU12ATEX1073 X**

[4] Equipment: **Pressure Transmitter**
Type AX7-XMP i, AX7-XMP ci and AX7-XMD

[5] Manufacturer: BD SENSORS s.r.o.

[6] Address: Hradistska 817
CZ 68708 Buchlovice
CZECH REPUBLIC

[7] The design of the equipment mentioned under [4] and any acceptable variations thereto are specified in the schedule to this EC-Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that the equipment mentioned under [4] has been found to comply with the Essential Health and Safety Requirements (given in Annex II to the Directive) relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive. The test results are recorded in the test report IB-09-3-281 of 11 July 2012.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2009 and EN 60079-1:2007.

[10] If the sign „X“ is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified under [17] in the schedule to this EC-Type Examination Certificate.

[11] This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

[12] The marking of the equipment mentioned under [4] shall include the following:

II 2G Ex d IIC T5 Gb

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 - 09599 Freiberg, GERMANY
☎ +49 (0)3731 3805-0 - 📠 +49 (0)3731 23650

Authorised for certifications
-Explosion protection-

By order

(Dr. Wagner)



- Seal -
(ID no. 0637)

Freiberg, 11 July 2012

Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Schedule

[13] **Schedule**

[14] **to the EC-TYPE EXAMINATION CERTIFICATE IBExU12ATEX1073 X**

[15] **Description of equipment**

The Pressure Transmitters type AX7-XMP i, AX7-XMP ci and AX7-XMD were used as precision pressure transmitter in the process industry. They consist of a flameproof enclosure of aluminium, which is separated in electronic and terminal compartment, as well as a screwed sensor.

Technical data:

- | | |
|------------------------------|---|
| - Pressure range AX7-XMP i: | von 0...400 mbar up to 0...600 bar |
| - Pressure range AX7-XMP ci: | von 0...60 mbar up to 0...20 bar |
| - Pressure range AX7-XMD: | von 0...75 mbar diff. up to 0...2 bar diff. |
| - Supply voltage: | 12 up to 28 V DC |
| - Output signal: | 4...20 mA |
| - Interne fuse: | 63 mA |
| - Ambient temperature range: | -20 °C up to +70 °C |

[16] **Test report**

The test results are recorded in the test report IB-09-3-281 of 11 July 2012. The test and information documents are part of the test report and listed there.

Summary:

The Pressure Transmitters type AX7-XMP i, AX7-XMP ci and AX7-XMD fulfil the requirements of explosion protection for equipment of Group II, Category 2G, type of protection flameproof enclosure „d“.

[17] **Special conditions for safe use**

- The Pressure Transmitters type AX7-XMP i, AX7-XMP ci and AX7-XMD can be used in an ambient temperature range from -20 °C up to +70 °C.
- The cable entry (M20x1.5) supplied by the manufacturer may be used only for fixed installation. The operating company has to ensure an appropriate clamping.

[18] **Essential Health and Safety Requirements**

Confirmed by compliance with standards (see [9]).

By order

Freiberg, 11 July 2012



(Dr. Wagner)

[1] **EU-TYPE EXAMINATION CERTIFICATE – TRANSLATION**



[2] Equipment and protective systems intended for use
in potentially explosive atmospheres, directive 2014/34/EU

[3] EU-Type Examination Certificate Number **IBExU12ATEX1073 X** | Issue 1

[4] Equipment: **Pressure Transmitters**
Type: AX7-XMP i, AX7-XMP ci and AX7-XMD

[5] Manufacturer: **BD SENSORS s.r.o.**

[6] Address: **Hradistska 817
CZ 68708 Buchlovice
GERMANY**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report IB-20-3-0029.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-1:2014

Except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 2G Ex db IIC T5 Gb**

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By order

Dipl.-Ing. (FH) Henker



- Seal -
(Notified Body number 0637)

Certificates without seal and signature are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail

Freiberg, 2020-06-08

[13] **Schedule**

[14] **Certificate number IBExU12ATEX1073 X | Issue 1**

[15] **Description of product**

The Pressure Transmitters type AX7-XMP i, AX7-XMP ci and AX7-XMD are used as precision pressure Transmitter in the process industry. They consist of a flameproof enclosure of aluminium, which is separated in electronic and terminal compartment, as well as a screwed sensor.

Technical data:

- | | |
|------------------------------|---|
| - Pressure range AX7-XMP i: | von 0...400 mbar up to 0...600 bar |
| - Pressure range AX7-XMP ci: | von 0...60 mbar up to 0...20 bar |
| - Pressure range AX7-XMD: | von 0...75 mbar diff. up to 0...2 bar diff. |
| - Supply voltage: | 12 up to 28 V DC |
| - Output: | 4...20 mA |
| - Internal fuse: | 63 mA |
| - Ambient temperature range: | -20 °C up to +70 °C |

Variations compared to the EC-Type Examination Certificate:

- Adaptation to the current standards of EN 60079
- Use of an alternative flameproof enclosure and other minor modifications

[16] **Test report**

The examination and test results are recorded in the confidential test report IB-20-3-0029 of 2020-06-04. The test documents are part of the test report and they are listed there.

Summary of the test results

The Pressure Transmitters type AX7-XMP i, AX7-XMP ci and AX7-XMD further fulfil the requirements of explosion protection for equipment of Group II and Category 2G, type of protection flameproof enclosure "db" for explosive atmospheres with gases and vapors up to explosion group IIC and temperature class T5.

[17] **Special conditions for use**

- The Pressure Transmitters type AX7-XMP i, AX7-XMP ci and AX7-XMD can be used in an ambient temperature range from -20 °C up to +70 °C.
- The cable gland supplied by the manufacturer (M20x1.5) may be used only for fixed installation. The operating company has to ensure an appropriate clamping.
- Unused openings for cable entries have to be closed durably with suitable screw plugs, which are confirmed for explosion protection according to EN 60079-1, Annex C.

[18] **Essential Health and Safety Requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:

- not applicable -

[19] **Drawings and documents**

The documents are listed in the test report.

By order



Dipl.-Ing. (FH) Henker

Freiberg, 2020-06-08