

[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: **IBExU05ATEX1105 X**
- [4] Equipment: Pressure measuring device type AX2 x|act nn...
AX2 XMP nn...
- [5] Manufacturer: BD Sensors s.r.o.
- [6] Address: Hradistska 817, CZ-687 08 Buchlovice
- [7] The equipment mentioned in [4] and any acceptable variation 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 Council Directive 94/9/EC of 23th March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in test report IB-05-3-190 of 3rd August 2005.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 50014:1997+A1+A2, EN 50020:2002 and EN 50284:1999.
- [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 in [4] shall include the following:

II 1G, II 1/2G or II 2G EEx ia IIC/IIB T4
-25 °C ≤ T_a ≤ +70 °C

The validity of the marking for the type of protection goes by the marking table in test report.

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Authorised for certifications Explosion protection
By order

(Dr. Lösch)



- Seal-
(ID no. 0637)

Freiberg, 3rd August 2005

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

Summary of the Test Result:

The Pressure measuring device type AX2 x|act nn... and AX2 XMP nn... fulfils the requirements of the type of protection Intrinsic Safety for an electrical apparatus for the Group II, depending on execution Explosion Group IIC or IIB and the Categories 1G, 1/2G or 2G.

[17] **Special conditions**

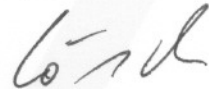
- The equipment designed with connector have to be installed in such a way, that the Degree of protection IP20, always will be kept.
- The safety and assembly notes contained in the operating instructions and the Ambient temperature range from -25 °C to +70 °C have to be observed.
- At pressure transmitter with the marking category 1/2 equipment, the sensor diaphragm serves as partition wall and has to be protected against mechanical damages.
- The isolation of the intrinsically circuit opposite the case is because of leakage flows in the blocking capacitors from the EMV-boards limited.

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

Confirmed by norms (see [9]).

By order

Freiberg, 3rd August 2005



(Dr. Lösch)



[1] **1st Addition to
EC-TYPE EXAMINATION CERTIFICATE IBExU05ATEX1105 X
- Translation -**

[2] Equipment:
a) Title corresponding to IBExU05ATEX1105 X:

Pressure measuring device type AX2 x|act nn ...
AX2 XMP nn ...

b) Supplementary titles: Pressure measuring device type AX2 HMP331...

[3] Manufacturer: BD Sensors s.r.o.

[4] Address: Hradistska 817 1
687 08 Buchlovice
Czech Republic

[5] **Addition / Alteration**

The additions / alterations of the equipment stated under [2] b) compared to the equipment already certified comprise of:

- a) An expansion of the series of Pressure measuring devices around the type AX2 HMP331..., this one also authorized for the use in dust explosive areas.
- b) The equipment has another system-unit cover construction.
- c) The electrical connection is executed about a new connection board.

[6] **Test Report**

The explosion proof protection of the equipment stated under [2] b) is documented in the Test Report IB-05-3-384 from 24th March 2006. The test documents are component of the Test Report.

[7] **Test result**

IBExU certifies, that the equipment stated under [2] b) fulfills the in Annex II of the RL 94/9/EC fixed Essential Health and Safety Requirements by accordance with EN 50014:1997+A1+A2, EN 50020:2002 and EN 50281-1-1:1998.

The equipment stated under [2] b) fulfills the requirements of explosion protection for electrical equipment in type of protection Intrinsically safety 'ia', Explosion Group IIB, Temperature Class T4 respectively in Dust-type of protection by enclosure with a maximum surface temperature of maximum 85 °C for Equipment Group II, Category 1G respectively 1/2D.

The marking of the equipment stated under [2] b) shall include the following:

⊕ II 1G EEx ia IIB T4
⊕ II 1/2D IP 6X T 85 °C
-25 °C ≤ T_a ≤ +70 °C

[8] **Special conditions**

Besides the special conditions of the equipment certified till now the following is valid in addition:

At use of the HMP 331 in areas of the zone 21 or 22 high energetic loading up mechanisms have to be excluded at the outer surface of the pressure-measuring device (e.g. pneumatic particle transport) at the application.

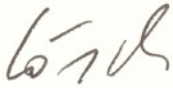
IBExU Institut für Sicherheitstechnik GmbH
An-Institut der TU Bergakademie Freiberg

This addition is only valid in connection with the EC-Type Examination Certificate
IBExU05ATEX1105 X of 03rd August 2005.

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Authorized for certifications
- Explosion protection -

By order



(Dr. Lösch)



- Seal -
(Identification No. 0637)

Freiberg, 28th March 2006

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