



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx IBE 16.0006X

Issue No: 1

Certificate history:

Issue No. 1 (2019-09-13)

Issue No. 0 (2016-02-11)

Status: **Current**

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Date of Issue: **2019-09-13**

Applicant: **BD SENSORS GmbH**  
BD-Sensors-Straße 1  
95199 Thierstein  
Germany

Equipment: **Pressure Transmitter**  
Optional accessory: **AX18B-D\*\*200**

Type of Protection: **Flameproof enclosure "d"**

Marking:  
Ex db IIC T6 Gb

Approved for issue on behalf of the IECEx  
Certification Body:

Dipl.-Ing. Alexander Henker

Position:

Head of Certification Body

Signature:  
(for printed version)

Date:

2019-09-13

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**  
Certification Body  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany



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Manufacturer: **BD SENSORS GmbH**  
BD-Sensors-Straße 1  
95199 Thierstein  
Germany

Additional Manufacturing location(s):

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 apparatus 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** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

*This Certificate **does not** indicate compliance with electrical 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:

[DE/IBE/ExTR15.0033/00](#) [DE/IBE/ExTR15.0033/01](#)

### Quality Assessment Report:

[DE/IBE/QAR19.0004/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Differential Pressure Transmitter type AX18B-D\*\*200 is used as precision pressure transmitter in the process industry. It consists of a flameproof enclosure of aluminium, which is separated in electronic and terminal compartment, as well as a screwed differential pressure sensor.

### Technical data:

- Differential pressure range: 10 mbar up to 20 bar
- Supply voltage: 12...42 V DC
- Output signal: 4...20 mA
- Internal fuse: 63 mA
- Ambient temperature range: -40 °C up to +65 °C

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The Pressure Transmitter type AX18B-D\*\*200 can be used in an ambient temperature range from -40 °C up to +65 °C.

The cable entry 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 IEC 60079-1, Annex C.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

The device also comply with the current standard IEC 60079-0, Edition 7. New QAR