



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

Certificate No.: IECEx IBE 16.0005X Issue No: 0 Certificate history:
Issue No. 0 (2016-02-04)

Status: **Current** Page 1 of 3

Date of Issue: **2016-02-04**

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

Electrical Apparatus: **Pressure transmitter**
Optional accessory: **AX18-D**100 and AX18-D**200**

Type of Protection: **Intrinsic safety "I"**

Marking:
Ex ia IIC T4 Ga/Gb
Ex ia IIIC T85 °C Db

Approved for issue on behalf of the IECEx
Certification Body:

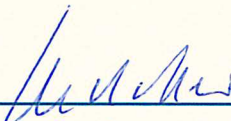
Prof. Dr. Tammo Redeker

Position:

Head of Certification Body

Signature:
(for printed version)

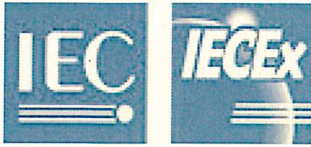
Date:


2016-02-04

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.

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 electrical 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: 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 electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

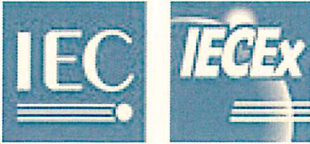
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/IBE/ExTR15.0032/00

Quality Assessment Report:

DE/TUN/QAR12.0007/01



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The differential pressure transmitters AX18-D**100 and AX18-D**200 are pressure gauges with different process connections; they consist of a flameproof enclosure of aluminium, which is separated in electronic and terminal compartment. The measured medium which is present in zone 0, contacts the transmitter via a tube installation and is only with stainless steel in contact. The devices are designed for use in hazardous areas requiring EPL Ga/Gb or Db. They are supplied by an intrinsically safe power supply for the category "ia".

Device variants:

- AX18-DPT200 Basic version as described above
- AX18-DGP200 Single pressure port
- AX18-DGP100 Single pressure port
- AX18-DAP200 Differential pressure sensor made as absolute pressure sensor
- AX18-DLP200 Remote seal (one side)
- AX18-DRP200 Two remote seals with capillaries

Technical data:

Ambient temperature range: 40 °C to +60 °C

Electrical data:

Supply and signal circuit in type of protection intrinsic safety Ex ia IIC

Ui 28 V DC
Ii 93 mA
Pi 660 mW
Ci 29.7 nF
Li negligible

CONDITIONS OF CERTIFICATION: YES as shown below:

The safety and assembly instructions contained in the operating instruction and the ambient temperature range $-40\text{ °C} \leq T_a \leq +60\text{ °C}$ have to be taken into account.