



[1] **EU-TYPE EXAMINATION CERTIFICATE - Translation**

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

[3] EU-type examination certificate number **IBExU10ATEX1142 X** | Issue 1

[4] Product: **Pressure measuring device**  
Type: BLP1

[5] Manufacturer: Barksdale GmbH

[6] Address: Dorn - Assenheimer Str. 27  
61203 Reichelsheim  
GERMANY

[7] This product and any acceptable variation thereto is 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-19-3-0019.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN 60079-0:2012+A11:2013 and EN 60079-11:2012 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 1G Ex ia IIB T4 Ga

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By order

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.

Dipl.-Ing. Willamowski

- Seal -  
(Notified Body number 0637)

Freiberg, 2019-08-12

[13]

**Schedule**

[14]

**Certificate number IBExU10ATEX1142 X | Issue 1**

[15]

**Description of product**

The pressure measuring device type BLP1 is a level sonde in the high-grade steel enclosure with fixed cable connection. The equipment is intended for use in potentially hazardous areas, where category 1G devices are required.

**Technical Data**

Ambient temperature range: -25 ° C to +70 ° C

**Electrical Data**

Supply electric circuit in type of protection Intrinsic Safety Ex ia IIC

(+ and -)

Ui 28 V DC

Ii 93 mA

Pi 660 mW

effective inner capacity

Ci 105 nF

effective inner inductivity

Li 5 µH

plus line inductivities 1 µH/m and line capacities 160 pF/m (cable supplied by the manufacturer)

The supply connections have an internal capacity of max. 140 nF to the housing.

*Variations compared to the previous editions of this certificate:*

**Variation 1**

*The device fulfills the requirements of the standards EN 60079-0: 2012+A11:2013 and EN 60079-11:2012.*

**Variation 2**

*The company name has been changed.*

[16]

**Test report**

The test results are recorded in the confidential test report IB-18-3-0019 of 2019-08-09.

The test documents are part of the test report and they are listed there.

**Summary of the test results**

The Pressure measuring devices type BLP1 fulfills the requirements of type of protection Intrinsic safety 'ia' on an electrical device for Equipment Group II Category 1G, explosion group IIB and temperature class T4.

[17]

**Specific conditions of use**

- The safety and assembly instructions contained in the operating instruction and the ambient temperature range  $-25\text{ °C} \leq T_a \leq +70\text{ °C}$  have to be taken into account.
- The device may be operated in explosive atmospheres which require equipment of Category 1 only when there are atmospheric conditions (temperature of  $-20\text{ °C}$  to  $+60\text{ °C}$ , pressure of 0.8 bar to 1.1 bar).

[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: None

**[19] Drawings and Documents**

The documents are listed in the test report.

IBExU Institut für Sicherheitstechnik GmbH  
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By order

Dipl.-Ing. Willamowski

Freiberg, 2019-08-12