

IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg



[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 **IBExU11ATEX1077 X** | Issue 2

[4] Product: **Pressure measuring device**
Type: UPA2-DMP33*-EX and UPA2-DMK331P-EX

[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-19-3-0015.

[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 IIC T4 Ga
 II 1D Ex ia IIIC T85 °C Da

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

Tel: + 49 (0) 37 31 / 38 05 0
Fax: + 49 (0) 37 31 / 38 05 10

By order

Dipl.-Ing. Willamowski



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.

Freiberg, 2019-08-12

[13] **Schedule**

[14] **Certificate number IBExU11ATEX1077 X | Issue 2**

[15] **Description of product**

The Pressure measuring device UPA2-DMP33*-EX and UPA2-DMK331P-Ex are electronic transducers in stainless steel enclosure with different pressure ports. As measuring cell and evaluation electronic serves separately approved electronic modules. The devices are intended for use in potentially hazardous areas, where Category 1G or 1D devices are required. They are supplied by an intrinsically safe power supply of the Category „ia“.

Technical Data

Ambient temperature range: -20 °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	negligible
effective inner inductivity	Li	negligible

The supply connections have an internal capacity of max. 27 nF to the housing.

Variations compared to the previous editions of this certificate:

Variation 1

The type UPA2-DMK331P-EX was added again as part of this approval.

[16] **Test report**

The test results are recorded in the confidential test report IB-18-3-0015 of 2019-08-08. The test documents are part of the test report and they are listed there.

Summary of the test results

The Pressure measuring devices UPA2-DMP33*-EX and UPA2-DMK331P-EX fulfil the requirements of type of protection Intrinsic safety ‚ia‘ on an electrical device for Equipment Group II Category 1G or 1D.

[17] **Specific conditions of use**

- The equipment designed with connector has to be installed in such a way that the degree of protection IP 20 is always kept.
- The safety and assembly instructions contained in the operating instruction and the ambient temperature range $-20\text{ °C} \leq T_a \leq +70\text{ °C}$ 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 °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.

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