

EU-TYPE EXAMINATION CERTIFICATE

(1)

(2) **Directive 2014/34/EU of the European Parliament and of the Council
of 26 February 2014**

(3) Certificate Number: **ExNB 22 ATEX 0007 X** Issue: **00**

(4) Equipment and protective systems intended for use in potentially explosive atmospheres:

Type: **Pressure Transmitter, Level Probe**

Model: **DX11-LMP 331, DX11-LMP 331 NG**

(5) Manufacturer or Authorized Representative in the Community:

Name: **BD SENSORS s.r.o.**

(6) Address: **687 08 Buchlovice, Hradištská 817, Czech Republic**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) ExNB Certification Institute Ltd, notified body No. 2684 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the examined 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 confidential Report No.:

22-0038/5

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-31:2014

Where additional criteria beyond those given here have been used, they are listed at item (18) in 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 item (17) of 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 1/2 D**

It is the customer's responsibility to maintain the content of the certificate and the related obligations

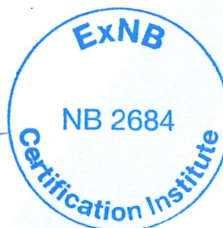
Unique identification of pages in the Certificate: The 4 numbered pages of this Certificate are identified by the page number in the Footer. This Certificate is only valid if signed and sealed and provided in its full content!

Issued certificates, their validity and withdrawn certificates can be found at <http://www.exnb.eu/en/certificates/product-certificates>. Certificates not listed on the above website are invalid.

Budapest, June 13, 2022



Dr Gábor Kun
Head of Certification



Árpád Veress
Managing director

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ATEX Notification Number: 2684



NB 2684

SCHEDULE

(13)

(14) Certificate Number: **ExNB 22 ATEX 0007 X** Issue: **00**

(15) Description of Product:

The screw-in transmitter LMP 331 has been designed for continuous level measurement and is characterized by an excellent performance and a robust construction. The modular construction allows the user the highest possible flexibility in the adaption of LMP 331. The precision screw-in level probe LMP 331 NG demonstrate the further development of the industrial pressure transmitters.

The pressure transmitter devices convert static pressure signals into electrical signals by means of piezo resistive membrane sensors. The pressure transducer is made of stainless-steel housing, equipped with removable wiring. Depending on the usage, it is possible to convert the (hydrostatic) pressure values into fluid level to display the liquid height above the sensor. The signal of the sensor is processed by the intelligent digital electronics with 14 or 24-bit A/D converter, which is able to do a linearization and on the LMP 331 NG an additional temperature compensation, too. Output is realized by 4-20 mA current.

Model numbering:

DX11-

LMP 331	Screw-in Transmitter
LMP 331 NG	Screw-in Transmitter Precision

Technical specification:

U = 12...28 V DC

Detailed marking of the product (from Section 1.0.5 of Annex II in the Directive 2014/34/EU) includes:

 **II 1/2 D Ex ta/tb IIIC T130°C Da/Db** $T_{amb} = -20 \dots +70 \text{ }^{\circ}\text{C}$ (16) Assessment Report number and date: **22-0038/5 (2022.06.13)**

(17) Specific Conditions of Use:

- Equipment must be installed in a place with low risk of mechanical impact and shall be adequately protected from falling objects.
- Non-metallic parts of the equipment enclosure shall be protected from direct sunlight.
- The device may be installed in environment where potentially explosive atmosphere with atmospheric ($p_{abs}=0.8\text{bar} \dots 1.1\text{bar}$) conditions may be present.
- Do not connect or disconnect the electrical plug when energized.

(18) Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item (9) of this certificate.

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- (19) Drawings and Documents (technical documentation):
Listed in the assessment report specified in item (16) of this certificate.

- (20) Certificate history:

Issue	Date	Details of change(s)
00	June 13, 2022	Original issue



NB 2684

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