

[1] **EU-TYPE EXAMINATION CERTIFICATE – TRANSLATION**



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

[3] EU-Type Examination Certificate Number **IBExU24ATEX1014 X** | Issue 0

[4] Equipment: **Ultrasonic Flow Meter**  
Type: 731-SNN

[5] Manufacturer: **FLEXIM Flexible Industriemesstechnik GmbH**

[6] Address: **Boxberger Straße 4**  
**12681 Berlin**  
**GERMANY**

[7] This product and any acceptable variation thereto are 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-23-3-0012.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:  
EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018 EN 60079-31:2014  
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:

**Ex II 2 D Ex tb IIIC T135 °C Db**  
-40 °C ≤ Ta ≤ +59 °C or +60 °C

**Ex II 3 G Ex ec IIC T4 Gc**  
-40 °C ≤ Ta ≤ +59 °C or +60 °C

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Certificates without seal and signature are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail

Freiberg, 30.10.2024

[13] **Schedule**

[14] **Certificate Number IBExU24ATEX1014 X | Issue 0**

[15] **Description of product**

The Ultrasonic Flow Meter type 731-SNN is designed to measure the flow properties (velocity, concentration etc.) of mediums (gases or liquids) in pipes. It consists of an enclosure from stainless steel with electronic assembly for connecting up to 2 ultrasonic sensor systems.

Rated values and technical data

- Nominal voltage: 100...240 V AC, 11...32 V DC or 20...32 V DC (depends on type)
- Power input: max. 15 W
- IP-Degree of protection: IP66 according to EN 60529
- Ambient temperature range: -40 °C up to +60 °C (vertical installation)  
-40 °C up to +59 °C (all other orientations)
- Transducer interfaces A and B (terminals or SMB plugs):  
Nominal voltage: ≤ 160 V
- Signal input / output and communication interfaces (terminals):  
Nominal voltage: ≤ 60 V
- Temperature sensor interfaces 1 and 2 (terminals):  
Sensor type: Pt100 / Pt1000  
Voltage / current: max. 3.6 V / 3 mA

Further technical data and the intended connection options are specified in the operating manual and in the safety instructions.

[16] **Test report**

The test results are recorded in the confidential test report IB-23-3-0012 of 2024-10-30.  
The test documents are part of the test report and they are listed there.

*Summary of the test results*

The Ultrasonic Flow Meter fulfils the requirements of explosion protection for equipment of Group II, Category 2 D, type of protection dust ignition protection by enclosure "tb".

Also, it fulfils the requirements of explosion protection for equipment of Group II, Category 3 G, type of protection increased safety "ec".

[17] **Special conditions for use**

- The max. ambient temperature is limited to +59 °C for all other orientations than vertical installation with cable entry openings downwards.
- The USB and LAN interface of the flow meter are intended to be used for maintenance purposes only, or when no explosive atmosphere is present.

[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:

- not applicable -

[19] **Drawings and documents**

The documents are listed in the test report.

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