

Translation

# EU-Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **BVS 23 ATEX E 046 X** Issue: **00**

Equipment: **Pressure transmitter type PEU-2\***

Manufacturer: **WIKA Alexander Wiegand SE & Co. KG**

Address: **Alexander-Wiegand-Straße 30, 63911 Klingenberg, Germany**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, 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 Report No. BVS PP 23.2075 EU.

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

<b>EN IEC 60079-0:2018</b>	<b>General requirements</b>
<b>EN 60079-11:2012</b>	<b>Intrinsic Safety "i"</b>
<b>IEC 60079-26:2021</b>	<b>Separation Elements or combined Levels of Protection</b>

Except in respect of those requirements listed under item 18 of the appendix.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking is provided in the Schedule as a part of item 15.

DEKRA Testing and Certification GmbH  
Bochum, 2023-12-18

Signed: Oliver Brumm

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Managing Director

13 **Appendix**  
 14 **EU-Type Examination Certificate**  
**BVS 23 ATEX E 046 X issue 00**

15 **Product description**

15.1 **Subject and type**

Pressure transmitter type PEU-2\*

Type code

PEU - 2\* - \*\*\* - \* - \*\*\*\*\* - \*\*\*\*\* - \*\*\*\*

PEU - 2a - bcd - \* - \*\*\*\*\* - ef\*\*\*\* - \*\*\*\*

**a pressure connection option**

“0” = pressure channel  
 “1” = front flush

**b approvals**

“A, I, W, E, G, J, K, P, U, 1, 2, 3, 4 or 5” = ATEX + IECEx  
 “C, D, F” = IECEx

**c Type of explosion protection**

“I” = Ex ia

**d Zone**

“C” = Zone 0: II 1G Ex ia IIC T6...T1 Ga  
 “D” = Zone 1 adjacent to zone 0: II 1/2G Ex ia IIC T6...T1 Ga/Gb  
 “E” = Zone 1: II 2G Ex ia IIC T6...T1 Gb  
 “H” = Zone 20: II 1D Ex ia IIC T135°C Da  
 “F” = Zone 21 adjacent to zone 20: II1/2D Ex ia IIC T135°C Da/Db  
 “G” = Zone 21: II 2D Ex ia IIC T135°C Db

**ef process connection (maximum media temperature)**

e = any character  
 f = “4” or “2” model with cooling element for high media temperature  
 f = any character other than “4” or “2” for standard model

In the complete type denomination, the characters “\*” can be replaced by further numbers or letters which characterize different variants without influence on explosion protection.

15.2 **Description**

The pressure transmitter type PEU-2\* converts a pressure into a digital Signal which is transmitted via UART-interface (Universal Asynchronous Receiver Transmitter) to an external device, e.g. to a radio unit. It is intended for measuring the pressure in an area with potentially explosive atmosphere (gas/dust). The PEU 2\* is intended for connection to intrinsically safe circuits of external devices.

Listing of all components used

Subject and type	Certificate	Standards
Pressure transducer type TIS-2*	BVS 14 ATEX E 058 U	EN IEC 60079-0:2018 EN 60079-11:2012 IEC 60079-26:2021



17 **Specific Conditions of Use**

- 17.1 The permissible ambient temperature range depends on the temperature class. Refer to the manufacturer's instructions.
- 17.2 For functional reasons, the partition wall (membrane) to the wetted area has a wall thickness < 0.2 mm. In the application it has to be ensured, that an impairment of the separation wall e.g. by aggressive media or mechanical hazards is excluded.
- 17.3 In gas-explosive areas, the device shall be installed in such a way that electrostatic charging at the type label is excluded.
- 17.4 In dust-explosive areas with conductive dust IIIC, the intrinsically safe circuit is not safely separated from earth/potentially earthed metal parts. Along the intrinsically safe circuit, potential equalization must exist.

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

The standard IEC 60079-26:2021 is safety-related equivalent to the harmonized standard EN 60079-26:2015 for this device. The only difference is the marking.

19 **Remarks and additional information**

Drawings and documents are listed in the confidential report.

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We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH  
Bochum, 2023-12-18  
BVS-Bo/Mu A 20230381 / 343088300

  
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Managing Director