



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX BVS 23.0027X** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-12-20

Applicant: **WIKA Alexander Wiegand SE Co. KG**  
Alexander-Wiegand-Straße 30  
63911 Klingenberg  
Germany

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

Optional accessory:

Type of Protection: **Intrinsic Safety "i", Equipment with Separation Elements or combined Levels of Protection**

Marking:

Model	Ex-marking
PEU-2*-**C-*.*****_*****_****	Ex ia IIC T6...T1 Ga
PEU-2*-**D-*.*****_*****_****	Ex ia IIC T6...T1 Ga/Gb
PEU-2*-**E-*.*****_*****_****	Ex ia IIC T6...T1 Gb
PEU-2*-**H-*.*****_*****_****	Ex ia IIIC T135°C Da
PEU-2*-**F-*.*****_*****_****	Ex ia IIIC T135°C Da/Db
PEU-2*-**G-*.*****_*****_****	Ex ia IIIC T135°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr Franz Eickhoff**

Position:

**Senior Lead Auditor, Certification Manager and officially  
recognised expert**

Signature:  
(for printed version)



2023-12-20

Date:  
(for printed version)

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Certificate issued by:

**DEKRA Testing and Certification GmbH**  
Certification Body  
Dinnendahlstrasse 9  
44809 Bochum  
Germany





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Page 2 of 4

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Manufacturer: **WIKA Alexander Wiegand SE Co. KG**  
Alexander-Wiegand-Straße 30  
63911 Klingenberg  
**Germany**

Manufacturing locations: **WIKA Alexander Wiegand SE Co. KG**  
Alexander-Wiegand-Straße 30  
63911 Klingenberg  
**Germany**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-26:2021](#) Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection  
Edition:4.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR23.0035/00](#)

Quality Assessment Report:

[DE/BVS/QAR07.0010/18](#)



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Page 3 of 4

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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Subject and Type

Pressure transmitter type PEU-2\*

### Type code

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 ignition protection

"I" = Ex ia

#### d zone

"C" = Zone 0: Ex ia IIC T6...T1 Ga

"D" = Zone 1 adjacent to zone 0: Ex ia IIC T6...T1 Ga/Gb

"E" = Zone 1: Ex ia IIC T6...T1 Gb

"H" = Zone 20: Ex ia IIIC T135°C Da

"F" = Zone 21 adjacent to zone 20: Ex ia IIIC T135°C Da/Db

"G" = Zone 21: Ex ia IIIC 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.

### 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 TIS-2*	IECEX BVS 14.0051U	IEC 60079-0:2017, Ed. 7.0 IEC 60079-11:2011, Ed. 6.0 IEC 60079 26:2021, Ed. 4

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1 The permissible ambient temperature range depends on the temperature class. Refer to the manufacturer's instructions.
- 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.
- 3 In gas-explosive areas, the device shall be installed in such a way that electrostatic charging at the type label is excluded.
- 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.

