

 **DEKRA**
On the safe side



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 13.0070X**

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Date of issue: 2021-07-15

Issue No: 3

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

Additional
manufacturing
locations:

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 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR13.0070/03](#)

Quality Assessment Report:

[DE/BVS/QAR07.0010/16](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description

The pressure transducer consists of a tubular stainless steel enclosure containing the printed circuit boards fitted with electronic components.

One end of the enclosure is equipped with a thread providing the process connection, the other end of the enclosure is equipped with a socket (either with a circular electrical connector M12 x 1 – 4 pole or with a bayonet electrical connector MIL-DTL-26482 or with a sub-D connector, 15 pin / 9 pin) or with a fixed cable (Flying leads – version).

In case of the plug and socket connection the plug part of the connector is provided by the end user in the end use application and has to be in accordance with all applicable clauses of IEC 60079-0 and IEC 60079-15 or IEC 60079-7.

A minimum degree of protection IP54 according to IEC 60529 has to be ensured.

The pressure transducer is in type of protection nA apart from the current to the voltage divider potentiometer which is in type of protection ic.

Subject and type

Pressure transducer type WUC -1*-**-*-*-*-*-*-*-*-*mn*pq-** and
 WU -2*-**-*-*-*-*-*-*-*-*mn*pq-**

mn Electrical connection M4 = circular connector M12 x 1 – 4 pole connector
 DL = flying leads
 O4 = bayonet connector MIL-DTL-26482 – 4 pole connector
 TX = Sub-D connector – 15 pole
 9S = Sub-D connector – 9 pole

p Approvals N = IECEx Ex nA
 I = IECEx Ex nA +*
 V = IECEx Ex ec + *
 S = other
 * Any additional national approvals

q Local Approvals Z = without
 I = IECEx Ex nA
 B = IECEx Ex ec

All asterisk “*” are not relevant for the explosion protection.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The connector provided by the end user in the end use application shall be in accordance with all applicable clauses of IEC 60079-0, IEC 60079-7 and IEC 60079-15. A minimum degree of protection IP54 according to IEC 60529 shall be ensured.

2. The sub-D version has to be installed in a way that it is protected against an impact energy of more than 4 J. The connector as well as the corresponding sealing are provided by the end user in the end use application and shall be in accordance with all applicable clauses of IEC 60079-0, IEC 60079-7 and IEC 60079-15.

A minimum degree of protection IP54 according to IEC 60529 shall be ensured.

3. The external earthing has to be established by the end user in the end use application.

4. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.



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Equipment (continued):

Parameters

The models are carried out with two different electrical connection options and three different output signals:

Output signal 4 up to 20 mA:

$U_N = 10$ up to 30 V

$R_A \leq (U_N - 10 \text{ V}) / 0.02 \text{ A}$

$P_{\max} = 1 \text{ W}$

Output signal 0 up to 5.1 V

$U_N = 10$ up to 30 V

$R_A > 5 \text{ k}\Omega$

Output signal 0 up to 10.1 V

$U_N = 14$ up to 30 V

$R_A > 10 \text{ k}\Omega$

Ambient temperature range	T6	$-20 \text{ }^\circ\text{C} \leq T_a \leq +40 \text{ }^\circ\text{C}$
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	T5	$-20 \text{ }^\circ\text{C} \leq T_a \leq +60 \text{ }^\circ\text{C}$
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	T4	$-20 \text{ }^\circ\text{C} \leq T_a \leq +85 \text{ }^\circ\text{C}$
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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Updating to the current versions of standards
(this includes that IEC 60079-7 is added and models with marking "ec" were added)
- Use of a modified membrane
- Addition of new amplifier circuit boards (new BCHW12 - Chip) - only for WU-2*