



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

Certificate No.:	IECEx BVS 18.0070X	Page 1 of 5	<u>Certificate history:</u> Issue 0 (2018-11-21)
Status:	Current	Issue No: 1	
Date of Issue:	2022-02-01		
Applicant:	WIKA Alexander Wiegand SE & Co. KG Alexander-Wiegand-Strasse 30 63911 Klingenberg Germany		
Equipment:	Pressure transducer type iWU-2x-**-*****-****-*****		
Optional accessory:			
Type of Protection:	Intrinsic Safety "i"		
Marking:	Ex ia IIC T4 Ga		

Approved for issue on behalf of the IECEx
Certification Body:

Jörg Koch

Position:

Head of Certification Body

Signature:
(for printed version)

Date:

01.02.2022

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

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

 **DEKRA**
On the safe side.



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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

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/ExTR18.0080/01](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type

See Annex

Description

The iWU-2x-**-*****-****-***** is an intrinsically safe pressure transducer providing a high media cleanliness level for UHP (Ultra High Purity) applications, e.g. in semiconductor manufacturing industry. One end of the iWU-2x provides the process connection.

The enclosure consists of stainless steel. The parts of the enclosure are welded.

The electronic is mounted on two PCBs. The electrical connection is a M12x1 plug connector or a cable with flying leads. The electronic is protected by the enclosure with a degree of protection of IP64 (for models with connector M12x1) or IP67 (for models with cable).

Listing of all components used referring to older standards

None

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1 The danger of ignition due to propagating brush discharges must be avoided by mounting the apparatus in areas without intensive electrostatic charging mechanism.
- 2 The circuits are limited to overvoltage Category III as defined in IEC 60664-1.



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Equipment (continued):

Parameters

Connector "U+" and "U-"

Maximum input voltage

U_i DC 30 V

Maximum input current

I_i 130 mA

Maximum input power

P_i 835 mW

Maximum internal capacitance

C_i

For type IWU-2*_*_*_*_*_*-M4*** (M12x1)

19.5 nF

For type IWU-2*_*_*_*_*_*-DL*** (fixed cable)

21.9 nF

Maximum internal inductance

L_i

For type IWU-2*_*_*_*_*_*-M4*** (M12x1)

negligible

For type IWU-2*_*_*_*_*_*-DL*** (fixed cable)

12 μ H

Ambient temperature range

For type IWU-2*_*_*_*_*_*-M4*** (M12x1)

T_a

-20 °C to +85 °C

For type IWU-2*_*_*_*_*_*-DL*** (fixed cable)

T_a

-20 °C to +65 °C



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Addition of an alternative membrane
- Update of sensor capsule contour (not ex related changes)

Annex:

[BVS_18_0070X_WIKA_Annex_issue1.pdf](#)



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Annex
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Subject and type

Pressure transducer type iWU-2x-**-*****-****-*****

The complete type designation

iWU-2x- ** - ***** - **** - ** * ||

Electrical connection

M4 Circular connector M12x1

DL Flying lead (Fixed cable)

includes further letters and numerals to indicate different variations of the Pressure transducer.

The asterisks which are not explained here denote type characteristics which have no influence on explosion protection or are otherwise marked on the apparatus.