



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 14.0109X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2014-11-28)
Date of Issue:	2021-07-19		
Applicant:	WIK A Alexander Wiegand SE & Co. KG Alexander-Wiegand-Straße 63911 Klingenberg/Main Germany		
Equipment:	Pressure transducers type IS-3		
Optional accessory:			
Type of Protection:	Type of Protection "n", Protection by Enclosure "t", Increased Safety "e"		
Marking:	Type IS-3-*3142-*-*-*-*ZB4Z* and type IS-3-*3144-*-*-*-*ZB4Z* ; Ex nA IIC T4,T5,T6 Gc or Ex ec IIC T4/T5/T6 Gc Type IS-3-*3343-*-*-*-*ZDC* and type IS-3-*3343-*-*-*-*ZDO* and type IS-3-*3345-*-*-*-*ZDC* and type IS-3-*3345-*-*-*-*ZDO* and: Ex nA IIC T4,T5,T6 Gc or Ex ec IIC T4/T5/T6 Gc Ex tc IIIC T90°C Dc		

Approved for issue on behalf of the IECEx
Certification Body:

Jörg Koch

Position:

Head of Certification Body

Signature:
(for printed version)

Date:

19.07.2021

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
63911 Klingenberg/Main
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 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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/ExTR14.0108/01

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 pressure transducer type IS-3 converts a pressure into an electrical current.

The pressure sensor consists of a stainless steel housing which is potted with a casting compound.

The electrical supply is either realised by a circular connector socket with the connector provided by the end user in the end use application or by a fixed cable.

The type with circular connector is in type of protection nA for use in Zone 2, the types with fixed cables are in type of protection nA and tc for use in Zone 2 respective Zone 22.

Temperature range and temperature class:

Type	EPL	Group	Ambient and medium temperature range [°C]	Temperature class
IS-3-*_*_*_*_*_*_*_*_*_*_*_*_*_*_*_*ZB4Z**_**** (circular connector M16x0.75)	Gc	IIC	-15 ≤ T _a ≤ +55	T6
IS-3-*_*_*_*_*_*_*_*_*_*_*_*_*_*_*_*ZDOA**_**** (cable outlet with protection cap)			-15 ≤ T _a ≤ +70	T5
IS-3-*_*_*_*_*_*_*_*_*_*_*_*_*_*_*_*ZDCA**_**** (cable outlet continuous use in medium, PUR)			-15 ≤ T _a ≤ +70	T4
IS-3-*_*_*_*_*_*_*_*_*_*_*_*_*_*_*_*ZDCB**_**** (cable outlet continuous use in medium, FEP)				
IS-3-*_*_*_*_*_*_*_*_*_*_*_*_*_*_*_*ZDOA**_**** (cable outlet with protection cap)	Dc	IIBC	-15 ≤ T _a ≤ +70	T90 °C
IS-3-*_*_*_*_*_*_*_*_*_*_*_*_*_*_*_*ZDCA**_**** (cable outlet continuous use in medium, PUR)				
IS-3-*_*_*_*_*_*_*_*_*_*_*_*_*_*_*_*ZDCB**_**** (cable outlet continuous use in medium, FEP)				

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 and IEC 60079-7 or IEC 60079-1. A minimum degree of protection IP54 according to IEC 60529 shall be ensured.
2. The external earthing has to be established by the end user in the end use application.



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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

Annex:

BVS_14_0109X_Wika_issue1.pdf



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Annex
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Subject and type:

Pressure transducer type IS-3-a-bcde-fgh-ijklmno-pqrstuv-wxyz

- a Pressure connection type (not relevant for explosion protection)
"0" = pressure channel
"1" = front flush
- bc Area of use
"31" = EPL Gc
"33" = EPL Gc + EPL Dc
- d Approvals
"4" = with explosion protection
- e Ignition protection type
"2" or "3" = non sparking nA
"3" = dust ignition protection by enclosure tc in combination with nA
"4" or "5" = increased safety ec
"5" = dust ignition protection by enclosure tc in combination with ec
- f Additional certifications
any character (not relevant for explosion protection)
- g SIL
any character (not relevant for explosion protection)
- h Special features
any character (not relevant for explosion protection)
- i Unit of measurement
any character (not relevant for explosion protection)
- jk Pressure range
any two characters (not relevant for explosion protection)
- lm Process connection
any two characters (not relevant for explosion protection)
- n Sealing
any character (not relevant for explosion protection)
- o Special design features
any character (not relevant for explosion protection)
- p Accuracy
any character (not relevant for explosion protection)
- q Adjustability
"Z" = without
- rs Electrical connection
"B4" = CIRCULAR CONNECTOR M16x0,75 ACC. TO IEC61076-2-106 5-PIN (only nA)
"DO" = CABLE OUTLET WITH PROTECTION CAP
"DC" = CABLE OUTLET (CONTINUOUS USE IN MEDIUM)
- t Cable material
"Z" = without
"A" = PUR
"B" = FEP
- uv Cable length
any two characters (not relevant for explosion protection)
- w Temperature range of medium
"7" = -15...70 °C
"6" = -15...60 °C
- x Electrical output signal - any character (not relevant for explosion protection)
- y Certificates - any character (not relevant for explosion protection)
- z Additional order details - any character (not relevant for explosion protection)