



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 PRE 19.0080X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2020-07-29) Issue 0 (2020-03-26)
Date of Issue:	2025-04-07		
Applicant:	Euromisure WIKA Instruments S.a.s. di WIKA Italia S.r.l. Viale De Gasperi, 48 Bareggio (MI) 20008 Italy		
Equipment:	Pressure switches series BAX		
Optional accessory:			
Type of Protection:	Ex db, Ex tb		
Marking:	Ex db IIC T6 or T4 Ga/Gb Ex tb IIIC T85°C or T135°C Db		

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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.
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Certificate issued by:

DNV Product Assurance AS
Veritasveien 1
1363 Høvik
Norway





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Page 2 of 4

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Manufacturer: **Euromisure WIKA Instruments S.a.s. di WIKA Italia S.r.l.**
Viale De Gasperi, 48
Bareggio (MI) 20008
Italy

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 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-26:2014 Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
Edition:3.0

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

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 Reports:

NO/PRE/ExTR19.0077/01

NO/PRE/ExTR19.0077/02

Quality Assessment Report:

NO/DNV/QAR13.0013/08



IECEx Certificate of Conformity

Certificate No.: **IECEx PRE 19.0080X**

Page 3 of 4

Date of issue: 2025-04-07

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Series BAX Bourdon pressure switches are constituted by a flameproof enclosure and by a Bourdon sensing element externally mounted to the enclosure itself. The enclosure is intended to contain one or two microswitches (contacts) and a terminal block used to electrically connect them to an external control circuit. The microswitches are directly operated by the element sensitive to pressure (pressure switches) through an operative rod.

The degree of protection is IP66 according to the Standard IEC 60529:2001

SPECIFIC CONDITIONS OF USE: YES as shown below:

The instruments series BAX** can be mounted on a boundary wall between zone 20 and zone 21.

Due to the thickness less than 2mm of the bourdon tube sensing element, the user should take into consideration that the equipment shall not be subject to environmental conditions which might adversely affect the bourdon tube.

The width of the flameproof joints is greater than the values specified in the tables of 60079-1 standard.



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Certificate No.: **IECEx PRE 19.0080X**

Page 4 of 4

Date of issue: 2025-04-07

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Change of company name.

Annex:

[Annex to IECEx PRE 19.0080X issue 2_1.pdf](#)

ANNEX TO CERTIFICATE: IECEX PRE 19.0080X ISSUE 2

PARAMETERS RELATING TO THE SAFETY

MAXIMUM ELECTRICAL RATING

- 380 V / 20 A c.a. or 250V /20 A c.a.
- 220 V / 0.5 A (30V / 2A) d.c.

Pressure switch: process temperature (media temperature at the process connection)

The limits of process temperature are: -60 ÷ +85 °C

The limits of process temperature are: -60 .. +65 °C				
Temperature Classification	Ambient temperature range (Tamb)	Min process temperature (Media temperature at the process connection of the instrument)	Max process temperature (Media temperature at the process connection of the instrument)	Max Current (resistive load)
T6	-60 .. +60 °C	-60 °C	+60 °C	(depending on the microswitches selected) See Nameplate
T5				
T4	+85 °C			
T3				
T2				
T1				
	-60 .. +85 °C			

MARKING

Marking has to be readable and indelible; it has to include the following indications:

Instruments series BAX:

- Euromisure WIKA Instruments S.a.s. di WIKA Italia S.r.l.
- Viale De Gasperi, 48 - 20008 Bareggio (MI) – ITALY
- BAX** (1)
- IECEX PRE 19.0080 X
- (Serial number)
- IECEX Marking (see below)
- Tamb: (*)
- Tcable: (*)
- Warning: POWER OFF BEFORE OPENING

(1) Type is completed by numbers and /or letters corresponding to manufacturing variations.

The marking and type of protection for the instruments series BAX (CCE05) are:

- Ex db IIC T6 Ga/Gb (Tamb from -60 to +60°C); Ex tb IIIC T85°C Db IP66 (Tamb from -60 to +60°C)
- Ex db IIC T4 Ga/Gb (Tamb from -60 to +85°C); Ex tb IIIC T135°C Db IP66 (Tamb from -60 to +85°C)

(*) See table below

Range of Ambient Temperature	Temperature Class		Cable Temperature
	Gas	Dust	
$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	T6	T85°C	N/A
$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +85^{\circ}\text{C}$	T4	T135°C	95°C

ROUTINE EXAMINATIONS AND TESTS

In accordance with § 16.2 of the IEC 60079-1 standard, the equipment defined above is exempted of routine test due to the fact that it has undergone a static type test at 4 times the reference pressure under 39 bar for ambient down to -60°C.