



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 19.0084X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2020-07-29) Issue 0 (2020-03-27)
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 and temperature switches lines Performance, Compact and Mini		
Optional accessory:			
Type of Protection:	Ex ia		
Marking:	Ex ia IIC T6 or T4 Ga Ex ia IIIC T85°C or T135°C Da Ex ia I Ma		

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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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:

DNV Product Assurance AS
Veritasveien 1
1363 Høvik
Norway





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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 60079-11:2011 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 Reports:

NO/PRE/ExTR19.0081/01

NO/PRE/ExTR19.0081/02

Quality Assessment Report:

NO/DNV/QAR13.0013/08



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Pressure and temperature switches are divided into 3 lines:

- Performance line (modular, bourdon, differential)
- Compact line
- Mini line

The instruments of each line share the same terminal block and microswitches (not applicable for mini line). All the instruments can mount one or two microswitches.

These enclosures get the degrees of protection IP66 according to the EN 60529 standard.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The equipment of the "Compact" line and "Mini" line made in aluminum light alloy shall be installed to be protected against frictions and impacts.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Change of company name and updated descriptive documents.

Annex:

[Annex to IECEx PRE 19.0084X issue 2.pdf](#)

ANNEX TO CERTIFICATE: IEC EX PRE 19.0084X ISSUE 2

PARAMETERS RELATING TO THE SAFETY

The maximum input characteristics of the equipment are:

U _i (V)	I _i (mA)	P _i (W)	L _i (mH)	C _i (μF)
30	100	0.75	0	0

Ambient temperature:

The limits of ambient operating temperature are:

-50 ÷ +85 °C for PXS series pressure switches and TXS series temperature switches

-60 ÷ +85 °C for all other series

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

The limits of process temperature are: -60 ÷ +85 °C or -50 ÷ +85 °C (for models PXS*** and TXS***)

Temperature Classification	Max ambient temperature	Max process temperature (Media temperature at the process connection of the instrument)
T6	+60 °C	+60 °C
T5		
T4		
T3	+85 °C	+85 °C
T2		
T1		

Temperature Switch: Process Temperature (Media Temperature At The Bulb)

For the instrument models equipped with stem for direct mounting the following table is applicable

Temperature Classification	Ambient temperature range (Tamb)	Max working temperature (T max.)	Max Current (resistive load)
T6	-60 ..+60 °C (^)	Shall not exceed the maximum temperature specified on the nameplate (see table)	5A@28V dc; 5A@250V a.c
T5			
T4	-60 ..+85 °C (*)		
T3			
T2			
T1			

For the instrument model equipped with stem for remote mounting and equipped with helical bulb for ambient temperature the following table is applicable

Temperature Classification	Ambient temperature range (Tamb)	Max Current (resistive load)
T6	-60 ...+60 °C (^)	(depending on the microswitches selected) See Nameplate
T5		
T4		
T3	-60 ...+85 °C (*)	
T2		
T1		

(^) for models TXS the ambient temperature range is -50 .. +60 °C

(*) for models TXS the ambient temperature range is -50 .. +85 °C

MARKING

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

Instruments series:

- Euromisure WIKA Instruments S.a.s. di WIKA Italia S.r.l.
- Viale De Gasperi, 48 - 20008 Bareggio (MI) – ITALY
- Performance line, Compact line, Mini line (1)
- IECEx PRE 19.0084 X
- (Serial number)
- IECEx Marking (see below)
- Tamb: (*)

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

The instruments with stainless steel enclosure belong to groups I, II and III. In particular:

- All the models of the Performance line;
- The models of the compact line:
 - PCS4* and PCS5*
 - TCS4* and TCS5*
 - DC**4*
- The models of the mini line:
 - PXS4*
 - TXS4*

The marking and the type of protection are:

for models PCS4*, PCS5*, TCS4*, TCS5*, DC**4*

- Ex ia I Ma (Tamb -60 to +85°C)
- Ex ia IIC T6 Ga (with Tamb from -60 to +60°C); Ex ia IIIC T85°C Da IP66 (with Tamb from -60 to +60°C)
- Ex ia IIC T4 Ga (with Tamb from -60 to +85°C); Ex ia IIIC T135°C Da IP66 (with Tamb from -60 to +85°C)

for models PXS4*, TXS4*

- Ex ia I Ma (Tamb -50 to +85°C) for PXS4, TXS4
- Ex ia IIC T6 Ga (with Tamb from -50 to +60°C); Ex ia IIIC T85°C Da IP66 (with Tamb from -50 to +60°C)
- Ex ia IIC T4 Ga (with Tamb from -50 to +85°C); Ex ia IIIC T135°C Da IP66 (with Tamb from -50 to +85°C)

The instruments with aluminum enclosure belong to groups II and III. In particular the models

- PCS2* and PCS3*
- PXS2*
- TCS2* and TCS3*
- TXS2*
- DC**2*

The marking and the type of protection are:

for models PCS2*, PCS3*, TCS2*, TCS3*, DC**2*

- Ex ia IIC T6 Ga (with Tamb from -60 to +60°C); Ex ia IIIC T85°C Da IP66 (with Tamb from -60 to +60°C)
- Ex ia IIC T4 Ga (with Tamb from -60 to +85°C); Ex ia IIIC T135°C Da IP66 (with Tamb from -60 to +85°C)

for models PXS2*, TXS2*

- Ex ia IIC T6 Ga (with Tamb from -50 to +60°C); Ex ia IIIC T85°C Da IP66 (with Tamb from -50 to +60°C)
- Ex ia IIC T4 Ga (with Tamb from -50 to +85°C); Ex ia IIIC T135°C Da IP66 (with Tamb from -50 to +85°C)

(*) See table below

Range of Ambient Temperature	Temperature Class		Series
	Gas	Dust	
$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	T6	T85°C	MW***** or BWX** or DW***** or APW***** or TWH***** or TW*** or PCS4/5** or TCS4/5** or DC**4*
$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +85^{\circ}\text{C}$	T4	T135°C	MW***** or BWX** or DW***** or APW***** or TWH***** or TW*** or PCS4/5** or TCS4/5** or DC**4*
$-50^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	T6	T85°C	PXS4** or TXS4**
$-50^{\circ}\text{C} \leq T_{\text{amb}} \leq +85^{\circ}\text{C}$	T4	T135°C	PXS4** or TXS4**

ROUTINE EXAMINATIONS AND TESTS

None