

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **Presafe 19 ATEX 21641X** **Issue 2**

[4] Product: **Pressure and temperature switches lines
Performance, Compact and Mini**

[5] Manufacturer: **Euromisure WIKA Instruments S.a.s. di WIKAI
Italia S.r.l.**

[6] Address: **Viale De Gasperi, 48
20008 Bareggio (MI) - ITALY**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 and EN 60079-11:2012

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 1 G Ex ia IIC T6 or T4 Ga
I M1 Ex ia I Ma**

 **II 1 D Ex ia IIIC T85°C or T135°C Da**



Date of issue:
2025-04-07



Asle Kaastad
For DNV Product Assurance AS
The Certificate has been digitally signed.

[13]

Schedule

[14] **EU-Type Examination Certificate No:**

Presafe 19 ATEX 21641X

Issue 2

[15] **Description of Product**

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.

Models, ATEX Classification and Type of protection

The following tables give the relationship between model and ATEX classification

Item	Model	ATEX Classific.	Type of protection			Mining	Category
Performance Line	MW*****	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	BWX**	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	DW*****	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	APW***	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	TWH***	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	TWG***	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	TWL***	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	TWC***	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	TWV***	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
Compact line	PCS4**	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	TCS4**	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	PCS5**	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	TCS5**	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	PCS2**	II 1G/D	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	//	NO	1
	TCS2**	II 1G/D	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	//	NO	1
	PCS3**	II 1G/D	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	//	NO	1
	TCS3**	II 1G/D	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	//	NO	1
	DC**4*	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
Mini line	DC**2*	II 1G/D	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	//	NO	1
	PXS4**	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	TXS4**	II 1G/D I M1	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	Ex ia I Ma	YES	1 / M1
	PXS2**	II 1G/D	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	//	NO	1
	TXS2**	II 1G/D	Ex ia IIC T6,T4 Ga	Ex ia IIIC T85°C,T135°C Da IP66	//	NO	1

Intrinsic safety electrical Data

Ui: 30 V

Ii: 100 mA

Pi: 0.75 W

Ci: 0 µF

Li: 0 mH

Degrees of protection (IP Code)

IP66

Ambient temperature:

The limits of ambient operating temperature are:

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

-60 to +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			
T3	-60 ..+85 °C (*)		
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	-60 ..+85 °C (*)	
T3		
T2		
T1		

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

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

Warning label

None

Installation conditions

A minimum degree of protection IP66 shall be guaranteed according to EN 60529 standard.

Routine tests

The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0 standard.

[16] **Report No.:** SC187565-20200701-DA-TLM-21641_02

Project No: PRJN-767532

[17] **Specific Condition(s) of Use**

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

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

Number	Title	Rev.	Date
SP-TC.708E	Technical specification	8	06/2024
NI.711E	Safety Instructions	2	06/2024
APWHUN.SI	Drawing applicable enclosure	2	2024/06/20
BWXUN.SI	Drawing applicable enclosure	6	2024/06/20
DW03UN.SI	Drawing applicable enclosure	2	2024/06/20
DW10UN.SI	Drawing applicable enclosure	2	2024/06/20
DW100UN.SI	Drawing applicable enclosure	2	2024/06/20
DCMH2A.SI	Drawing applicable enclosure	2	2024/06/20
DCMH4A.SI	Drawing applicable enclosure	2	2024/06/20
MWXXUN.SI	Drawing applicable enclosure	5	2024/06/20
PCS2MA.SI	Drawing applicable enclosure	2	2024/06/21
PCS4MA.SI	Drawing applicable enclosure	2	2024/06/21
PXS4ME.SI	Drawing applicable enclosure	2	2024/06/21
TCS2BA.SI	Drawing applicable enclosure	2	2024/06/21
TCS2CA.SI	Drawing applicable enclosure	2	2024/06/21
TCS4BA.SI	Drawing applicable enclosure	2	2024/06/21
TCS4CA.SI	Drawing applicable enclosure	2	2024/06/21
TWGBUN.SI	Drawing applicable enclosure	2	2024/06/21
TWGCUN.SI	Drawing applicable enclosure	2	2024/06/21
TWH8BUN.SI	Drawing applicable enclosure	2	2024/06/21
TWH8CUN.SI	Drawing applicable enclosure	2	2024/06/21
TXS4BE.SI	Drawing applicable enclosure	2	2024/06/21
TXS4CE.SI	Drawing applicable enclosure	2	2024/06/21
DN.99890	Drawing electrical subgroups	6	2024/06/19
UN.99890	Drawing electrical subgroups	6	2024/06/19
PC.99890-DN	Drawing electrical subgroups	4	2024/06/19

PC.99890-UN	Drawing electrical subgroups	4	2024/06/19
PXS.9901	Drawing electrical subgroups	4	2024/06/19
PXS.9902	Drawing electrical subgroups	4	2024/06/19
PXS.9903	Drawing electrical subgroups	1	2024/06/19
PXS.9904	Drawing electrical subgroups	1	2024/06/19
BW-IP	Drawing for the degree of protection	1	2024/06/19
DE-IP	Drawing for the degree of protection	2	2024/06/20
DW03-IP	Drawing for the degree of protection	1	2024/06/20
DW10-IP	Drawing for the degree of protection	1	2024/06/20
DW40-IP	Drawing for the degree of protection	1	2024/06/20
MW-IP	Drawing for the degree of protection	1	2024/06/20
PC-IP	Drawing for the degree of protection	0	2024/06/20
DGT.ATEX-B	Drawing marking plate	3	2024/06/17
DGT.ATEX-C	Drawing marking plate	2	2024/06/17
DGT.ATEX-F	Drawing marking plate	2	2024/06/17
DGT.ATEX-G	Drawing marking plate	2	2024/06/17

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2020-03-27	SC166368-20200210-DA-TLM-21641
1	Change of company name	2020-07-29	SC187565-20200701-DA-TLM-21641
2	Change of company name and updated descriptive documents	2025-04-07	SC187565-20200701-DA-TLM-21641_02

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

END OF CERTIFICATE