

[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 21640X** **Issue 2**

[4] Product: **Pressure switches series PX and temperature switches series TX**

[5] Manufacturer: **Euromisure WIKA Instruments S.a.s. di WIKA 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 60079-1:2014; EN 60079-26:2015 and EN 60079-31:2014**

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 1/2 G Ex db IIC T6 or T4 Ga/Gb
II 2 G Ex db IIC T6 or T4 Gb
I M2 Ex db I Mb

 II 1/2 D Ex tb IIIC T85°C or T135°C Db
II 2 D Ex tb IIIC T85°C or T135°C Db



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 21640X

Issue 2

[15]

Description of Product

The instruments series PX and TX contain one or two electrical microswitches hermetically sealed in a stainless steel enclosure. The microswitches are:

- connected with a multipolar cable with 4-7 conductors isolated with silicon and an external silicon armor
- or connected with 4-7 unipolar conductors isolated with a silicon armor to be connected by an approved terminal box certified for Hazardous Locations assembled with the instrument by means of the electrical connection.

The assembly (microswitch subgroup), in both executions, is provided with a tear-proof device drowned in a polyurethane resin solidly connected with the enclosure

The diaphragm is welded to the enclosure containing the microswitches in order to form a hermetically sealed container.

Within the equipment there is a partition wall element on the border between zone 0 (20) and zone 1 (21), which is made up of a measuring diaphragm and a natural ventilation opening. There is only mechanical part inside the Zone 0/20.

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

Type designation

Pressure switches series PX and temperature switches series TX

The instruments models PXA*** and TXA*** are classified as electrical equipment for potentially explosive atmospheres because of the presence of: gas, vapors and fogs of the IIC group, combustible dusts of the IIIC group.

The instruments models PXA*M*, PXA*G* are 1/2 category equipment intended to be used on surface (not in mines).

The instruments models PXA*P* and TXA*** are 2 category equipment intended to be used on surface (not in mines).

The instruments models PXA4**, TXA4** (Main Housing Material in AISI316) are also classified as electrical equipment belonging to group I (mines).

Electrical Data

250 V / 5 A c.a.

24 V / 5 A d.c

Degrees of protection (IP Code)

IP66

Ambient temperature:

-50°C to +60°C for T6

-50°C to +85°C for T4

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

The limits of process temperature are: $-50 \div +85 \text{ }^{\circ}\text{C}$

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	-50 +60 °C	-50 °C	+60 °C	5A@28V dc; 5A@250V a.c
T5				
T4	-50 +85 °C		+85 °C	5A@28V dc; 5A@250V a.c
T3				
T2				
T1				

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

For the instrument model TXA*B* (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	-50 ..+60 °C	Shall not exceed the maximum temperature specified on the nameplate (see table)	5A@28V dc; 5A@250V a.c
T5			
T4			
T3	-50 ..+85 °C		
T2			
T1			

For the instrument model TXA*C*, TXA*Q*, TXA*R* (stem for remote mounting) and TXA*S* (helical bulb for ambient temperature) the following table is applicable

Temperature Classification	Ambient temperature range (Tamb)	Max Current (resistive load)
T6	-50 ..+60 °C	(depending on the microswitches selected) See Nameplate
T5		
T4		
T3	-50 ..+85 °C	
T2		
T1		

Warning label

None

Installation conditions

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

Routine tests

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

In accordance with § 16.2 of the IEC 60079-1 standard, the equipment defined above is exempted of routine test in owing to the fact that its internal volume is less than 10 cm³.

[16] **Report No.:** SC187565-20200701-DA-TLM-21640_02
Project No: PRJN-767532

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

1. The instruments series PXA*M*, PXA*G* can be mounted on a boundary wall between zone 20 and zone 21.
2. Due to the thickness less than 1mm of the diaphragm, the user should take into consideration that the equipment shall not be subject to environmental conditions which might adversely affect the partition wall.
3. For Group I: the equipment shall not be exposed to chemical agents during use.

[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.798E	Technical specification	5	2024-06
NI.709E	Safety Instructions	3	2024-06
PXA.9905	Electrical subassembly (Single-core cable)	6	2024/06/07
PXA-CESI	Drawing	5	2024/06/07
CCE07U	Drawing CCE07	2	2024/06/07
CCE07D	Drawing CCE07	2	2024/06/07
PXA.9902	Electrical subassembly (Sheathed multi-core cable)	6	2024/06/07
PXA.9913	Electrical subassembly (Sheathed multi-core cable)	3	2024/06/07
PXA.9916	Electrical subassembly (Single-core cable)	3	2024/06/07
DGT.ATEX-E	ATEX nameplates	2	2024/06/17
DGT.ATEX-H	ATEX nameplates	2	2024/06/17

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2020-03-26	SC166368-20200210-DA-TLM-21640
1	Change of company name	2020-07-29	SC187565-20200701-DA-TLM-21640
2	Change of company name and minor update of descriptive documents	2025-04-07	SC187565-20200701-DA-TLM-21640_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