

[1] **EU - TYPE EXAMINATION CERTIFICATE**
[2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU Annex III, Module B


[3] EU – Type Examination Certificate Number ACE25ATEX024X Rev00
[4] Product Pressure Controller Model XA-ZYPOX
[5] Manufacturer Tianjin Xin 'an Explosion-proof Electrical Appliance Co., Ltd
[6] Address No. 6-101, Building E, Liufangzi Industrial Innovation Park, Dagui Road, Tianmu Town, Beichen District, Tianjin City, 300134, China

[7] This equipment or protective system and any acceptable variation there to are specified in the schedule to this certificate and the documents therein referred to.
[8] Advanced Consulting and Engineering Iberia SL (A.C.&E. Iberia S.L.), Notified body Accreditation nº: NB3024 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and 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 Report nº.
EX_EXD013_25_25-1065, EX_EXI005_25_25-1065, EX_EXT009_25_25-1065
[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2018 : Explosive atmospheres — Part 0: Equipment — General requirements
EN 60079-1:2014: Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures ‘d’
EN 60079-11: 2013 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety ‘i’
EN 60079-31:2014: Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure ‘t’
[10] If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the point 17 of This certificate.

[11] This EU – Type Examination Certificate relates only to the design and construction of the specified product. 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 equipment or protective system shall include the following:

 II 2G Ex db ib IIC T4 Gb
II 2 D Ex tb IIIC T80°C Db

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Date: 18/07/2025



**Advanced Consulting and Engineering
Iberia SL**
Notified Body No NB3024

Matteo Marconi, CEO

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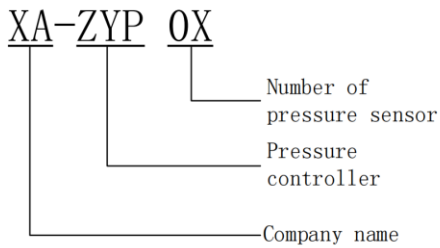


[13] **SCHEDULE**

[14] EU-Type Examination Certificate No: ACE25ATEX024X Rev00

[15] Description of equipment

1. Model Designation Explanation:



2. Structure of production

The pressure controller consists of a control unit and two(or one) pressure sensors, which can simultaneously control and detect the pressure of environments. The pressure sensor feeds back the collected pressure value to the control unit via RS485 communication.

The control unit consists of enclosure(SUS304 or Q235), observation window, internal electrical components and diode safety barrier, which conforms to “db ib” and “tb”.

The pressure sensor consists of enclosure(SUS304 or Q235) and internal electrical printed circuit board assembly, which conforms to “ib”.

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[13] **SCHEDULE**

[14] EU – Type Examination Certificate No: ACE25ATEX024X Rev00

[16] Test documents are listed in the test report nº
EX_EXD013_25_25-1065, EX_EXI005_25_25-1065, EX_EXT009_25_25-1065

[17] Special conditions for safe use

1. For the sprayed coating of Q235 enclosure, the equipment may cause static electricity risks only in dust hazardous area(Group III) . Only wipe with a wet cloth when cleaning! The warning “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” is used.
2. WARNING - DO NOT OPEN WHEN ENERGIZED.
3. WARNING – AFTER DE-ENERGIZING, DELAY 30 MINUTES BEFORE OPENING.
4. The cable glands and stop plugs used in the control unit are not in the scope of this certification. Cable glands and stop plugs used shall be IEC certified. Operating ambient temperature, description of equipment, special conditions for safe use and IP rating in the certificate shall be observed. The cable entry of the enclosure is threaded, install suitable cable gland and stop plug, the thread specifications are M20x1.5-6g.

[18] Essential Health and Safety Requirements
Are fulfilled by the harmonized standard

[19] Documents and technical datasheets:

Title	Object	Revision	Date
General assembly drawing	XA-ZYPOX-000	V1.0	2024.12.20
Cover	XA-ZYPOX-001	V1.0	2024.12.20
Cover plate	XA-ZYPOX-001-01	V1.0	2024.12.20
Threaded parts of cover	XA-ZYPOX-001-02	V1.0	2024.12.20
Shell of control unit	XA-ZYPOX-002	V1.0	2024.12.20
Thread ring of shell	XA-ZYPOX-002-01	V1.0	2024.12.20
Shell 2 of control unit	XA-ZYPOX-002-02	V1.0	2024.12.20
Shell 1 of control unit	XA-ZYPOX-002-03	V1.0	2024.12.20
M18X1.5 welded nut	XA-ZYPOX-002-04	V1.0	2024.12.20
M20X1.5 welded nut	XA-ZYPOX-002-05	V1.0	2024.12.20
M8 blind welded thread	XA-ZYPOX-002-06	V1.0	2024.12.20
Welded pole	XA-ZYPOX-002-07	V1.0	2024.12.20
Flame-proof button	XA-ZYPOX-003	V1.0	2024.12.20
Button shell	XA-ZYPOX-003-01	V1.0	2024.12.20
Button pole	XA-ZYPOX-003-02	V1.0	2024.12.20
Tempered glass	XA-ZYPOX-004	V1.0	2024.12.20
Nameplate	XA-ZYPOX-005	V1.0	2024.12.20
Grounding marking	XA-ZYPOX-006	V1.0	2024.12.20
Switch fixed plate	XA-ZYPOX-007	V1.0	2024.12.20

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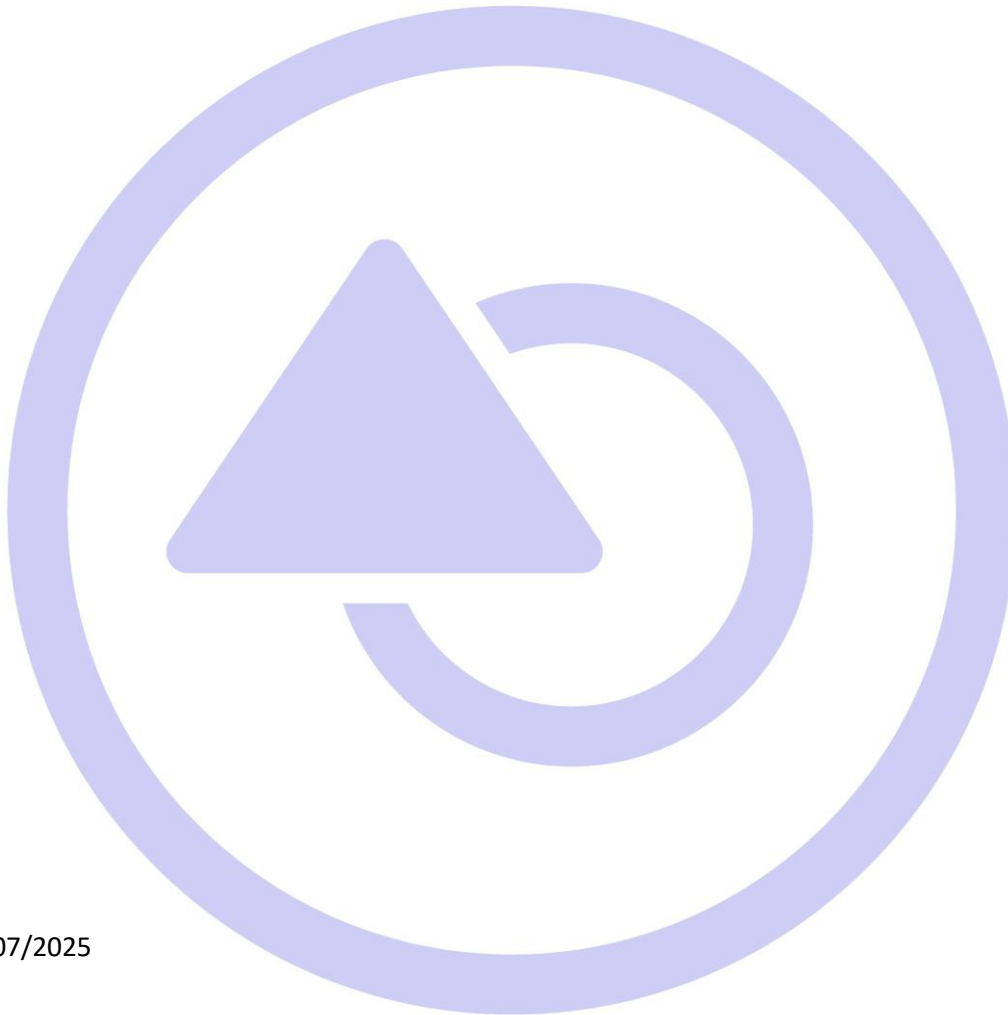
Fixed plate	XA-ZYPOX-008	V1.0	2024.12.20
Fixed plate 2	XA-ZYPOX-009	V1.0	2024.12.20
Fixed plate 3	XA-ZYPOX-010	V1.0	2024.12.20
Dispaly panel	XA-ZYPOX-011	V1.0	2024.12.20
Pressure sensor	XA-ZYPOX-012	V1.0	2024.12.20
Potting structure drawing	XA-ZYPOX-013	V1.0	2024.12.20
Circuit connection diagram	XA-ZYPOX-K	V1.0	2024.12.20
Schematic of diode barrier	XA-ZYPOX-D01	V1.0	2024.12.20
Layout of diode barrier	XA-ZYPOX-D02	V1.0	2024.12.20
BOM of diode barrier	XA-ZYPOX-D03	V1.0	2024.12.20
Schematic of pressure sensor board	XA-ZYPOX-P01	V1.0	2024.12.20
Layout of pressure sensor board	XA-ZYPOX-P02	V1.0	2024.12.20
BOM of pressure sensor board	XA-ZYPOX-P03	V1.0	2024.12.20
User manual	XA-ZYPOX-UM	V1.0	2024.12.20
K-704N TDS	/	/	2020.10
BZ-3900AB TDS	/	/	/
CM1200CT epoxy resin material report	XAQR-2024-06	V1.0	/
110 Silicone rubber material report	XAQR-2024-07	V1.0	2024.11.15
SUS304 stainless steel material report	XAQR-2024-05	V1.0	2024.8.1
6061 material report	XAQR-2024-04	V1.0	2024.11.15
216 series fuses	/	/	2017.4.12
UL iQ for fuses	/	/	2019.12.6
MFR series resistors	JLC-01-008	V1.0	2016.5.9
MF series resistors	/	/	/
SMBJ53XXB Zener diode	/	V3-6	2021.12.15
IECEX test report	IECEX Test report number: CN/CMExC/ExTR25.0015 Testing Laboratory: China National Quality Supervision &Test Center for Explosion- proof and Safety Products for Coal Mine (CMExC).	00	2025.5.23

The above-mentioned documents are strictly confidential and they are of only use of authorities.
A copy of the documents is saved by A.C.&E. Iberia S.L.

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[20] Certificate History

Certificate Number	Rev.	Comments	Date
ACE25ATEX024X	00	First emission	18/07/2025



Date: 18/07/2025



**Advanced Consulting and Engineering
Iberia SL**
Notified Body No NB3024

Matteo Marconi, CEO

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