

- [1] **EU - TYPE EXAMINATION CERTIFICATE**
- [2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**
- [3] EU – Type Examination Certificate Number ACE24ATEX017X Rev00
- [4] Product Electronic Volume Conversion Device
type EVC- AU801
- [5] Manufacturer Noavaran San’at Ariosam Company
- [6] Address No.148, Guilan Science & Technology Park,
Medical Council’s St., Rasht, Guilan
Province, Iran
- [7] This equipment or protective system and any acceptable variation thereto 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 the confidential Report nº.
EX_EXI004_24_24-1479
- [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 60079-11: 2013 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
- [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 ia IIC T4 Gb

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Date: 19/12/2024



**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: ACE24ATEX017X Rev00

[15] Description of equipment

The electronic corrector of gas volume type EVC- AU801 is an intrinsically safe electronic equipment that is generally used in gas consumption measurement stations, to calculate the actual mass or volume of gas based on the temperature, pressure and volume at the same time by performing software calculations. to be These actions are performed by the gas volume corrector and the sensors connected to it.

The maximum permissible ambient range: -30°C to +60°C

Electrical data:

Internal battery	1 x 3.6V LISOCL2 Battery EVE ER34615 (D size)			
External Supply	Ex ia IIC certified intrinsic safety power supply with following maximum values			
	U _i = 12V			
	I _i =0.3A			
	P _i =0.9W			
	C _i = 12 nF			
DI1, DI2, DI3, DI4 (Digital Inputs):	U _o ≤ 4.5V	I _o ≤ 1.7mA	P _o ≤ 2mW	
	H _o =90μH	Co=2.4 μF		
DO1, DO2, DO3, DO4 (Digital Outputs):	U _i ≤ 15V	I _i ≤ 11mA	P _i ≤ 165mW	
	H _i =30μH	Ci=1.4 μF		
RS232 Pins (V+) vs (GND):	U _i ≤ 20V	I _i ≤ 0.3A	P _i ≤ 0.9W	
(TXD) vs (GND):	U _o ≤ 5.1V	I _o ≤ 9.2mA	P _o ≤ 12mW	
(RXD) vs (GND):	U _i ≤ 20V	U _o ≤ 5.1V	I _o ≤ 5.5mA	P _o ≤ 7mW
RS485 Pins (V+) vs (GND):	U _i ≤ 20V	I _i ≤ 0.3A	P _i ≤ 0.9W	
Data Pins (A)-, (B)+:	U _i ≤ 12V	U _o ≤ 5.4V		

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[13] **SCHEDULE**

[14] EU-Type Examination Certificate No: ACE24ATEX017X Rev00

[16] Test documents are listed in the test report nº
24/Ex ia/8471/C (Ver:00)

[17] Special conditions for safe use
1. The maximum permissible ambient range: -30°C to +60°C

[18] Essential Health and Safety Requirements are
Fulfilled by the harmonized standards

[19] Documents and technical datasheets:

Title	Object	Revision	Date
PRW1178-00	Installation and Commissioning Guide	--	26/10/2024
24/Ex ia/8471/C	Laboratory test report	00	18/08/2024
GEDB171-00	Technical file	First ed.	13/03/2024

The documents above-mentioned 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.

[20] Certificate History

Number of certificate	Rev.	Comments	Date
ACE24ATEX017X	00	First issue	19/12/2024

Date: 19/12/2024



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