

[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 ACE25ATEX025X Rev00  
[4] Product Fixed Gas detector model PGM300  
[5] Manufacturer Petro Ayande Rojhan Mehregan  
[6] Address Number 80, knowlage based company building,  
Sanaye Square, Shiraz , Iran, postal code 718884111.

[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\_EXD014\_25\_25-921  
[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’  
[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 IIC T6 Gb Tamb: -20°C ; +70°C

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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]

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[15] Description of equipment

Gas detector has been certified as flameproof enclosure.

PGM300 is a Flameproof toxic or oxygen and flammable gas detector with local LCD display for use in Zone 1 and 2 hazardous areas. Gas detector consists of IIC gas group threaded door flameproof enclosure and sensor head. Electronic equipments are in the interior. The body of the enclosure is made of aluminum alloy and gas sensor head is made of Stainless Steel 316L. Sensor filled with epoxy resin, Variety Sensors are available According to the sensor application.

The gas detector has protection class IP65.

### Technical Parameters:

Type	PGM300
Model	Fixed Gas detector
Enclosure	Aluminium
Sensor housing	Stanless steel 316L
Local display window	Tempered glass
Ambient temperature range	-20°C to +70°C
Cable Gland entries	M20 x 1.5
Maximum Voltage	30Vdc

### Main technical specification

Name	Fixed Gas Detector
Model	PGM300
Gas Type	LEL(CH <sub>4</sub> , C <sub>3</sub> H <sub>8</sub> , etc.) – H <sub>2</sub> S – SO <sub>2</sub> – O <sub>2</sub> – CO – CO <sub>2</sub>
Sensor Type	Electrochemical / NDIR / Catalytic Bead
Measuring Ranges	PPM / LEL / Vol
Response Time (T-90)	30 Seconds or less
Accuracy	± 2% Full Scale
Alarms	
Alarm Settings	One programmable alarm set points
Alarm Indication	Visual LEDs
Relays	5 amp form 'C' contacts
Physical	
Dimensions	181 × 139 × 89 mm
Display	Dot LED Matrix / LCD
Enclosure	Explosion proof
Explosion proof signs	Exd IIC T6

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Controls	Magnet used for calibration functions. Calibrates without opening the housing.
Material Box	Aluminum
Material Housing Sensor	Stainless Steel 316
Cable gland threads	M20 x 1.5 mm
Paint	Epoxy (thickness<0.2mm)
Operating Environment	
Operating Temperature	-20°C to 70°C
Relative Humidity	5 - 95% RH non-condensing
Location	Indoor or outdoor. Explosion proof.
Operating Voltage	16 VDC - 30 VDC
Power Input	24 VDC @ 160 mA maximum
Outputs	
Analog	Linear 4-20 mA signal
Digital	RS485 (Optional)

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[13] **SCHEDULE**

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[16] Test documents are listed in the test report nº  
25/Ex db/9250/P, Ver:00

- [17] Special conditions for safe use
- The apparatus must be installed according to EN 60079-14 standard and national regulations.
  - Use the apparatus only in accordance with the operating conditions described in the manufacturer's operating Instructions;
  - All modifications and changing are strictly forbidden.

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

Documents and technical datasheets:

Title	Object	Revision	Date
25/Ex db/9250/P,	Laboratory test report	00	08/05/2025
PGM300-Tech_file	Technical file	0.1	01/01/2025
PGM300 - Instruction	Operation instruction	0.1	01/01/2025

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.

[20] Certificate History

Certificate Number	Rev.	Comments	Date
ACE25ATEX025X	00	First issue	18/07/2025

Date: 18/07/2025



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