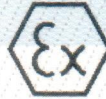


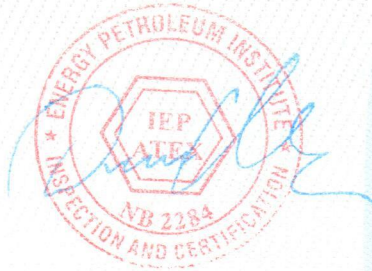
- (1) **EU-Type Examination Certificate**
- (2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**
- Directive 2014/34/EU**
- (3) EU – Type Examination Certificate Number: **IEP 23 ATEX 1238X**
- (4) Product: **Etrans-PX1 and Etrans-PX5 pressure transmitter**
- (5) Firm Name: **Enelsan Endüstriyel Elektronik Sanayii A.Ş.**
- (6) Firm Address: **Cerkesli Osb dist. İmes 4. Avenue No:11 Dilovası / Kocaeli – TÜRKİYE**
- (7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of 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 Report Nr: IEP.Rp.Ex.10-2543 date 21.07.2023.
- (9) Compliance with Essential Health and safety requirements has been assured by compliance with ;
- EN IEC 60079-0:2018, EN 60079-11:2012**
- (10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and construction 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 equipment or protective system shall include the following:



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Responsible Person :

Nurettin Terzioglu
Head of Certification Body



Date of Issue : 24.07.2023





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(13) Schedule

(14) Certificate Nr: **IEP 23 ATEX 1238X**

(15) Description of Equipment;

Enelsan Etrans-PX1 and Etrans-PX5 pressure transmitters are placed in a stainless-steel body and are composed of a piezoresistive measurement cell and an electronic card on the stainless-steel sensor. The electrical connection is made with a PG 9 cable gland socket or M12 4 pin – M12 5 pin sockets in accordance with DIN 43650 norm. Process connection is made with stainless steel G1/4" BPS, G1/2" BSP, G1/4" NPT, G1/2" NPT, G1", G1" Flush, G1/2" Flush, Clamp connections.

Enelsan Etrans-PX1 and Etrans-PX5 pressure transmitters have been evaluated as Zone 0 area that be used danger area determined in the EN 60079-10-1 standards.

Entity Parameters:

Device Parameters

$U_i = 28$ VDC, $I_i = 25$ mA, $P_i = 0,7$ W, $C_i = 3$ nF, $L_i = 2$ mH, $L_i/R_i = 20,83 \mu\text{H}/\Omega$

Ambient Temperature : $-25^\circ\text{C} \sim +85^\circ\text{C}$

IP Protection Degree : IP 65/ 67

Measurement Range : $-1 \sim 1000$ bar

Current Output : 4-20 mA 2-wire

Voltage Output : 0-10 VDC 3-wire

Process Connection : G 1/4", G 1/2", G 1/4" NPT, G 1/2" NPT, G 1/2" Flush, G 1", G 1" Flush, DN 25 Clamp

(16) Essential Health and Safety Requirements:

16.1 Are included in standards, which are mentioned in clause (9) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction.

16.2 At the installation and the operation of the Enelsan Etrans-PX1 and Etrans-PX5 pressure transmitters have to be observed manufacturer's manual 14 pages dated 05.2023.

(17) Special Conditions for Safe Use;

17.1 The equipment must be installed so, that during intended use, including maintenance and cleaning, or during malfunctions that can normally be expected, an ignition source due to electrostatic charging of the enclosure is excluded.

17.2 The meaning of (IEP 23 ATEX 1238X) X Means: Pressure transmitter shall be used as an intrinsically safe circuit Zener barrier. The Zener barrier specifications must be suitable according to the IIC gas group and transmitter energy sheets. To must be installed by authorized personnel according to the user manual and EN 60079-14. Periodic inspection should be carried out by authorized personnel according to EN 60079-17.

(18) List of Documentation:

- ♦ Operation Manual : 14 pages, dated 05.2023
- ♦ Component List : Table 2.11, dated 05.2023

For the validity of the analysis-type certificate, the parts used in the Enelsan Etrans-PX1 and Etrans-PX5 pressure transmitters were confirmed in the component list.

Responsible Person :

Nurettin Terzioğlu
Head of Certification Body

Date of Issue : 24.07.2023



IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyon Ticaret Limited Sirketi
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