Supplement Nr: 03
EU-Type Examination Certificate

(1)

(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

(3) EU – Type Examination Certificate Number: **IEP 15 ATEX 0307X**

(4) Product: **DGx/EX Model Differential Pressure Gauges, Contacted**

(5) Firm Name: **PAKKENS Yedek Parça Makina Sanayi ve Ticaret A.Ş.**

(6) Firm Address: **Minareliçavuş Bursa OSB Mah. Sarı Cad. No:50 Bursa - 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.10-738-3 date 24.10.2023.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with;

EN IEC 60079-0:2018, EN 60079-11:2012, EN ISO 80079-36:2016 and EN ISO 80079-37:2016

(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:

II 1/2G Ex h IIC T3 Ga/Gb
II 2G Ex ia IIC T3 Gb
II 2D Ex h ia IIIC T200°C Db

Responsible Person:
Nurettin Terzioglu
Head of Certification Body

Supplement 03 Date of Issue : 26.10.2023

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(13) Schedule / Certificate Nr: **IEP 15 ATEX 0307X**

(14) Description of Equipment: The Differential Pressure Gauges, Contacted consist of the mechanical basic instruments DG x/EX Model Body- cover: Brass, Collector: Steel (coated) or stainless steel, Diaphragm and seal: Viton, NBR, Pointer: aluminum, Glass cover. The contact within the device is considered simple apparatus according to the EN 60079-11 standard. It does not store or generate energy on its own. The reed switch circuit shall be connected exclusively to an appropriately certified intrinsically safe associated apparatus. (for contact= max. values 45V DC, 68 mA, contact capacitance (max): 0,2 pF, Lo= 0) SAN or Acrylic elements are made. All types of differential pressure gauges, contacted degree of protection is IP 65. The differential pressure gauges, contacted are use explosive gas and dust area. The parts and materials that are used in Differential pressure gauges, contacted has been determined in the list of mechanical parts dated 11.2014.

DGx/EX Differential Pressure Gauges, Contacted Technical Sheets

Ambient Temperature	T_A (°C)	-20 ~ +60 °C
Max. Fluid Temperature	$T_{F\ max}$ (°C)	+ 60 °C
Overpressure class	Bar	≤ 40 bar P_N x 1,25 ; > 40 bar P_N x 1,15
IP XY Degree of Protection	IP	IP 65
Measurement interval	mbar	0-200, 0-300, 0-600, 0-1000, 0-2000
Connection	-	BSPP, BSPT, NPT, M
Accuracy Class	CI	CI ± 10 %
DGx / EX		x : Pakkens code

(IEP 15 ATEX 0307X) X Means: It must be installed by authorized persons in accordance with the standard and user manual. The device must strictly be operated via an intrinsically safe (Ex ia/ib) isolation barrier. The output power (Po) of the installed barrier must be selected by the installer in accordance with the EN 60079-11 standard, ensuring it does not exceed the equipment's T3 (200°C) temperature class and cable wiring limits.

(15) Essential Health and Safety Requirements: This certificate is in the contents of standards that mentioned in item [9] It has been accepted that of Differential pressure gauges, contacted are manufactured according to the producer instructions and the standards mentioned above. Information's of assembled working of differential pressure gauges, contacted with other related equipments exist in instruction manual with 2 pages approved and date 11.2014. Item nr [3].

(16) List of Documentation:

- Risk analysis report : Total 2 pages and date 02.11.2014 and EN ISO 80079-36, 2 pages 31.08.2023)
- Test reports: Total page 4 and date 02-06 .02.2015
- Drawing;

Drawing Nr ;	**Drawing Name;**	**Date ;**
0595 00 00 00	Front View	11.2014
0595 00 00 00	Side View	11.2014
0595 00 00 00	Connection diagram	11.2014
0595 00 00 00	80x80 Differential Pressure Gauges	08.2023

For the validity of analysis type certificate, the parts that are used in differential pressure gauges, contacted are determined in confirmed list of mechanical part and 11.2014 dated.

Certificate History;

Supplement Nr	Supplement Date	Summary Description of Variation
03	26.10.2023	Revision
02	11.10.2023	Upgrade to ATEX directive 2014/34/EU, Standard Update, Ex Code Revision
01	14.05.2015	Equipment Name Changed
00	02.04.2015	First issue of certificate

Responsible Person:
Nurettin Terzioglu
Head of Certification Body

Supplement 03 Date of Issue : 26.10.2023

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