



[1]

Supplement No:1 To EC-Type Examination Certificate

[2] **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

[3] EC – Type Examination Certificate Number : **IEP 15 ATEX 0305 x**

[4] Equipment : **MTx /EX Model Pressure Transmitter and Pressure Transmitter with barrier**

[5] Manufacturer : **PAKKENS Yedek Parça Makina Sanayi ve Ticaret A.Ş.**

[6] Address :**Organize Sanayi Bölgesi Sarı Cadde No:20 Bursa -TURKEY**

[7] This equipment or protective system and 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 of the Council Directive 94/9/EC of 23 March 1994 certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in confidential Report N : IEP - RP.Ex - 10. 731.2 date 14.08.2015

[9] Compliance with Essential Health and safety requirements has been assured by compliance with ;

EN 60079-11/ 2012 ; EN 13463-1/2009 ; EN 60079-31/2009

[10] If the sign “ X “ is placed after the certificate number , it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-Type Examination Certificate relates only to the design examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following :



**II ½ G Ex ib IIC T4 Gb / II 1 G Ex ia IIC T4 Ga
II 2D Ex tb IIIC T 125 °C Db / II 1D Ex ta IIIC T 125 °C Da**

Responsible person :

Nurettin Terzioğlu
Head of certification body

Date of issue : 17.08.2015





[13] Schedule

[14] Certificate Nr : **IEP 15 ATEX 0305 x**

[15] Description of Equipment Protective System

MTx /EX model pressure transmitter is signaling device according to the pressure. Transmitter consists of mechanical and electrical parts. Signal output values are given below. MTx /EX model pressure transmitter degree of protection is IP 65/67. The MTx /EX model pressure transmitter are use explosive gas and dust area. The parts and materials that are used in MTx /EX model pressure transmitter has been determined in the list of mechanical and electrical parts dated 10.2014. MTx /EX model pressure transmitter used in Zone 0 and Zone 20 with by intrinsically safe circuit barrier and certificate Nr DEKRA 11 ATEX 0244x .

MTx /EX model pressure transmitter

Type		MTx /EX model
Voltage supply	V DC	9.....35 V DC
Output range	mA	4...20 mA
Ambient Temperature	T _A (°C)	-25 ...+ 125 °C
Storage Temperature	T _s (°C)	-40 ...+ 135 °C
Temperature Drift	T _d (°C)	± % 0,2
Accuracy	%	≤ ± 0,5 % FS (-25 °C / +85 °C) ≤ ± 1,0 % FS (+85 °C / +125 °C)
Degree of Protection (By the cable external diameter)	IP	IP 65/67
Pressure	Bar	600 Bar (max)
MTx /EX		x:Pakkens Code
Connection type		BSPP , BSPT , NPT , M

NOTE : MTx/Ex type pressure transmitter (For Ex protection type Ex II 1G Ex ia IIC T4 Ga/II 1D Ex ta IIIC T 125 °C Da) must be use intrinsically safe circuit barrier . The barrier specifications are in certificate No DEKRA 11 ATEX 0244x .

[16] Essential Health and Safety Requirements :

16.1 This certificate is in the contents of standards that mentioned in item [9] It has been accepted that of pressure transmitter are manufactured according to the producer instructions and the standards mentioned above.

16.2 Information's of assembled working of pressure transmitter with other related equipments exist in instruction manual with 4 pages approved and date 10.2014 and additional instruction manual with 10 pages approved and date 07.2015. Item nr [3] (IEP 15 ATEX 0305 x) x means : Barrier system should be used for energy restriction. This equipment works with pressure system. Should be according to the connection installation instructions.

[17] List of documentation ;

Hazard analysis report : Total 2 page and date 02.11.2014

Declaration of conformity : 1 page and date 11.14 , Additional declaration of conformity 1 page and dated 08.2015.

Test reports : Total pages 2x6 and date 30 .01.2015

Marking label : 1 page and dated 11.2014 , Additional 1 page marketing label and dated 08.2015.

Responsible person :

Head of certification body

Nurettin Terzioğlu



IEP Uluslararası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti.

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Number of Pages : 2 / 3

This certificate is granted subject to the general conditions of the IEP Energy Petroleum Institute.

This certificate may only be reproduced in its entirety and without any change , schedule included.



[18] Report Nr: IEP RP.Ex - 10. 731.2

Report date : 14.08.2015

[19] Drawings :

Drawing Nr ;	Drawing Name;	Date ;
2001 00 00 04	Pressure Sensor Screw Caps	01.06.2012
P2NZ2000	Upper-Sub Contact Socket	21.01.2014
2002 00 00 08	Pressure Sensor With Connector Body - G 1/4"	01.12.2014
12FB5000-ATEX	Upper-Sub Contact Socket	23.05.2014
8100 XXX XX	Pressure Sensor Transmitter	01.09.2014
2001 01 00 00	Pressure Sensor G 1/4 CI.1,0 10bar	01.11.2014
8100 XXX XX	Pressure Sensor-M12x1 Transmitter	01.09.2014
2002 00 00 00	Pressure Sensor With Connector body - G 1/4" M12x1	01.12.2014
2001 07 00 00	Pressure Sensor with by 9106B1A barrier (DIN connector)	07.2015
2002 07 00 00	Pressure Sensor with by 9106B1A barrier (M12 connector)	07.2015
9106B1A	Electrical connection diagram	07.2015

For the validity of analysis type certificate, the parts that are used in MTx /EX model pressure transmitter are determined in confirmed list of mechanical and electrical parts dated 11.2014 . Additional parts list dated 07.2015.

Revision 1 description: It is related to the revision of the product code. MTx/EX is written instead of TRx/EX. Supplement Certificate – 01 explanation : For MTx /EX model pressure transmitter use in Zone 0 and Zone 20, to must be use with by intrinsically safe circuit barrier.

Responsible person :

Nurettin Terzioğlu
Head of certification body



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