IEP | ENERGY PETROLEUM INSTITUTE

IEP ATEX

Supplement No:1
(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 16 ATEX 0411 X**

(4) Equipment: **MKx-EX model (Ø 100 and Ø 160), Inductive contacted pressure gauges, with intrinsic safety 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 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. Şti., 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.10-927-1 date 17.04.2017.

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

EN 13463-1/2009 ; EN 60079-11/ 2012 ; EN 60079-31/2014

(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:

Ex **II 1G Ex ia IIC T4 Ga**
II 1D Ex ta IIIC T 125 °C Da

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

Date of Issue : 07.04.2016

Supplement No: 1 Date of Issue : 18.04.2017

ENERGY PETROLEUM INSTITUTE IEP ATEX NB 2284 INSPECTION AND CERTIFICATION

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(13) Schedule

(14) Certificate Nr: **IEP 16 ATEX 0411X**

(15) Description of Equipment:

MKx-EX model inductive contacted pressure gauges is signaling device according to the pressure. This pressure gauges consists of mechanical and electrical parts. Signal output values are given below. MKx /EX degree of protection is IP 65. MKx-EX inductive contacted pressure gauges are used explosive gas and dust area. The parts and materials that are used in MKx-EX inductive contacted pressure gauges has been determined in the list of mechanical and electrical parts dated 10.2014. MKx /EX model inductive contacted pressure gauges used in Zone 0 and Zone 20 with by intrinsic safety barrier and certificate Nr DEKRA 11 ATEX 0244X.

MKx-EX model inductive contacted pressure gauges

Type		MKx / EX (Ø 100 and Ø 160)
Voltage supply	V DC	(9 ~35) V DC
Output range	mA	(4~20) mA
Ambient Temperature	T_A (°C)	(-20 ~ + 60) °C
Max.Fluid Temperature	T_{fmax} (°C)	+ 200 °C (Max)
Degree of Protection (By the cable external diameter)	IP	IP 65
Pressure measurement range	Bar	(-1 ~ 1000) Bar
MKx /EX		x:Pakkens Code
Connection type		BSPP , BSPT , NPT , M
NOTE : (0411 X) X means : MKx-EX inductive contacted pressure gauges must be use intrinsic safety barrier. The intrinsic safety barrier specifications are in certificate No DEKRA 11 ATEX 0244x . The same features can be used with another intrinsic safety barrier (ia ex type).		

(16) List of Documentation;

Hazard analysis report : Total 2 page and date 01.2016,
Declaration of conformity : 1 page and date 01.2016,
Test reports : Total pages 2x6 and date 23.03.2016,
Marking label : 1 page and dated 04.04.2016 ,

(17) Essential Health and Safety Requirements :

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

17.2 Information's of assembled working of inductive contacted pressure gauges with other related equipments exist in instruction manual with 6 pages approved and date 27.03.2017. This equipment works with pressure measuring system. Should be according to the connection installation instructions.

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

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(18) Certificate Nr: **IEP 16 ATEX 0411X**

(19) Drawings:

Drawing Number;	**Drawing Name;**	**Drawing date;**
9202B	Inductive contacted pressure gauges intrinsic safety barrier	03.2017
Ø100 & Ø160	General drawings	03.2017
2650 95 04 10	Intrinsic safety barrier connected scheme	03.2017

Other drawings ; Ø 100, Inductive contacted pressure gauges , Drawing dates (2014 ~ 2017 year).
Revision drawings date is march 2017.

Inductive contacted pressure gauges, Bottom Connection, Cl. 1,0 0/0,6…0/60 bar, 13 page drawings,

Inductive contacted pressure gauges, Bottom Connection, Cl. 1,0 0/100…0/1000 bar, 13 page drawings,

Inductive contacted pressure gauges, Abaxial back connection, Cl. 1,0 0/0,6…0/60 bar 11, page drawings,

Inductive contacted pressure gauges, Abaxial back connection, Cl. 1,0 0/100…0/1000 bar 11, page drawings,

Ø 160, Inductive contacted pressure gauges , Drawing dates (2014 ~ 2017 year).

Inductive contacted pressure gauges, Bottom Connection, Kl. 1,0 0/0,6…0/60 bar, 19 page drawings,

Inductive contacted pressure gauges, Bottom Connection, Kl. 1,0 0/100…0/600 bar, 19 page drawings,

Inductive contacted pressure gauges, Abaxial back connection, Kl. 1,0 0/0,6…0/60 bar 19, page drawings,

Inductive contacted pressure gauges, Abaxial back connection, Kl. 1,0 0/100…0/600 bar 11, page drawings,

For the validity of analysis type certificate, the parts that are used in MKx-EX inductive contacted pressure gauges are determined in confirmed list of mechanical and electrical parts dated 04.2017 and 3 pages .

MKx-EX inductive contacted pressure gauges use in Zone 0 and Zone 20, to must be use with by intrinsically safe barrier.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

Date of Issue : 17.04.2016

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