

## Supplement No: 2

## 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 11 ATEX 061 X**(4) Product: **LPG Dispenser 8100 series**(5) Firm Name: **YENEN Mühendislik Müşavirlik Sanayi ve Ticaret Ltd. Şti.**(6) Firm Address: **Aksemsettin Mah. Tavukcuyolu Sok. No : 23 Sultanbeyli ISTANBUL – 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. 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.10-382-2 date 13.07.2018.

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

**EN 14678-1 : 2013**

(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.

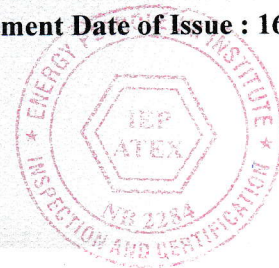
(12) The marking of the equipment or protective system shall include the following:

 **II 2G IIA T3**

Responsible Person:

Nurettin Terzioglu  
Head of Certification Body

Supplement Date of Issue : 16.07.2018

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(13) Schedule

(14) Certificate Nr: **IEP 11 ATEX 061 X**

(15) Description of Equipment;

The dispenser LPG 8100 series 1, 2 and 4 are designed for dispensing of liquid propane-butane gas through one, two or four nozzles at public filling stations to car's tanks. The construction of dispenser consists of hydraulic housing in IP 23 degree of protection; nozzle boot in IP 67 degree of protection; interspaced and electronic counter housing in IP 54 degree of protection according to EN 60529:1991 +AC:2017. IP54 tests were performed for the certificate.

The hydraulic housing and interspaced are natural ventilated through opening in perforated dispenser covers. The nozzle boot for locating of filling nozzle consists of pocket partially enclosed housing which is situated in the column extensions.

Construction of the dispenser applies separation vapor barriers Type 2 between the hydraulic housing and the interspaced and vapor barriers Type 2 between electronic counter housing and interface according to standard EN 14678-1 : 2013.

The determination of hazardous areas inside and outside of the dispenser is defined in accordance to EN 60079-10-1 : 2015 ; EN 14678-1 : 2013.

The inside area of dispenser hydraulic housing is Zone 1 outside area of dispenser hydraulic housing up to 50 mm vertically over upper edge of hydraulic housing and up to 200 mm from horizontally downwards to ground level are Zone 2.

The inside of nozzle boot is Zone 1.

The electronic counter housing is separated by the vertical vapor Type 2, inside and outside of housing is a safe area Non –classified.

The electrical and non-electrical equipments installed in a.m hazardous areas are in corresponding Ex-type of protection specified "List of electrical and non-electrical parts." Table 1 and Table 2.

X: LPG dispenser installation must be in accordance with the operating instructions,

## Technical Specification:

Number of products	: 1
Number of discharge nozzles	: 1 or 2 or 4
Max. Stream intensity	: 60 dm <sup>3</sup> /min
Min. Stream intensity	: 6 dm <sup>3</sup> /min
Operating / max pressure	: 1,0 – 1,3 MPa / 1,8 MPa
Design pressure	: 2,5 MPa
Power supply	: 230 V ± 10 %; 50 Hz; 300 W
Ambient temperature T <sub>A</sub>	: -25 °C ≤ T <sub>A</sub> ≤ +55 °C
Nominal inside diameter	: of inlet pipeline : ¾" (liquefied phase LPG) of drain pipeline : ½" (gaseous phase LPG)

## Responsible Person :

Nurettin Terzioğlu  
Head of Certification Body







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(16) Certificate Nr: **IEP 11 ATEX 061 X**

(17) Special Conditions for Safe Use :

- 17.1 The LPG dispensers 8100 series 1 ; 2 ; 4 are not a self- dispensers, they must be serviced by a personal with appropriate authorizations only (according to domestic regulations).
- 17.2 Installation and operation of the LPG dispenser 8100 series 1 ; 2 ; 4 have to conform to the relevant national regulations.

(18) Essential Health and Safety Requirements :

- 18.1 Covered by standards mentioned in [9 ] of this certificate.
- 18.2 According to Directive 2014/34/EU Annex 2, clause 1.0.6 and manufacture's service and operation manual for use dated 17.11.2014, the dispenser is not allowed to be installed in hazardous area specified according to EN 60079-10-1.
- 18.3 At the installation and the operation of dispenser have to be observed manufacture's service and operation manual dated 17.11.2014. (46 pages)

(19) List of Documentation :

♦ Risk analysis ( 5 pages ) EN 14678-1	02.08.2011
♦ Risk analysis ( 4 pages ) EN 14121 -1	02.08.2011
♦ Drawing Nr ;	
Y-8100-02	10.06.2011
Y-8100-01	10.06.2011
Y-S-80	10.06.2011
Y-8100-03	10.06.2011
Y-8100-04	13.06.2011
Y-S-10	13.11.2009
Y-S-16	18.11.2009
Y-S-18	18.11.2009
Y-S-19	18.11.2009
Y-S-20	18.11.2009
Y-S-22	18.11.2009
Y-S-14	16.11.2009
Y-S-84	14.06.2011
Y-S-85	14.06.2011
Y-S-82	16.11.2009
Y-S-81	13.06.2011
Y-S-11	16.11.2009
Y-S-26	19.11.2009
Y-S-83	19.11.2009

For the validity of analysis type certificate, the parts that are used in LPG Dispenser 8100 series are confirmed in the list of electrical equipment Table 3, dated 28.12.2017 and non-electrical equipment Table 4, dated 21.05.2017 .

## Certificate History

Supplement N°	Supplement Date	Summary Description of Variation
02	16.07.2018	Equipment Addition
01	09.01.2018	Upgrade to ATEX directive 2014/34/EU Conformity to standard EN 14678-1:2013
00	18.11.2011	First issue of certificate

Responsible Person:

Nurettin Terzioğlu  
Head of Certification Body

Supplement Date of Issue : 16.07.2018

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