

## Supplement Nr: 02

## 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 13 ATEX 0135X

(4) Product: Gas Sensor Head, Type GL 01

(5) Firm Name: SMS Sanayi Malzemeleri Üretim ve Satış A.Ş.

(6) Firm Address (HQ) : Bostancı Yolu Kuru Sokak No: 16 Y.Dudullu, Ümraniye, İstanbul – TÜRKİYE  
Address (FAC.): Çerkeşli OSB Mahallesi İmes-2 Cad. B Blok No:5 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.10-484-2 date 27.12.2023.

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

EN IEC 60079-0 : 2018 , EN 60079-1 : 2014, EN 60079-18 : 2015

(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 Ex mb db IIA T4 Gb, IP 65 / IP 55

Responsible Person:

Nurettin Terzioğlu  
Head of Certification Body

Supplement 02 Date of Issue : 29.12.2023







# IEP ENERGY PETROLEUM INSTITUTE

(13) Schedule

(14) Certificate Nr: **IEP 13 ATEX 0135X**

(15) Description of Equipment;

The Gas Sensor Heads type GL 01 are used to detect the CH<sub>4</sub> and natural gas. The Sensor Heads are composed by a gas sensor containing electronic cards. There can be semiconductor, catalytic, electrochemical or infrared sensors inside the sensor heads. Sensor Heads can be made from Brass Body, Stainless Steel Body. There are epoxy in the body. GL 01 type sensor heads can be used with exproof detectors. If the detector is not exproof equipment; detector should be installed in the non-hazardous area. GL 01 Type Gas Sensor Head is equipped with cable series HD 21.13.S1/HD.22.4.S4. GL 01 type Gas Sensor Head body is protection class of IP 65 and sinter area IP 55. GL 01 type Gas Sensor Head is use as 1 and 2 that be used danger area determined in the EN 60079-10-1 standard.

## Technical Parameters: Gas Sensor Head, Type GL 01

Product Type : GL 01  
IP protection : IP 65 / IP 55  
Ambient temperature ( ° C ) : - 10 ; + 50  
Maximum Power Dissipated : 750 m W , 5VDC  
Cable thickness /length : 3x 1,5 mm<sup>2</sup> (4m , 5m , 10m , 15m , 20 m)  
Sensor type : MQ-4

(16) Special conditions for safe use : Working of GL 01 gas sensor head with other related equipments must be adapted to national regulations.

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

(18) List of documentation ;

GL 01 Type Gas Sensor Head user manual date 28.02.2018 [ 15 pages ]

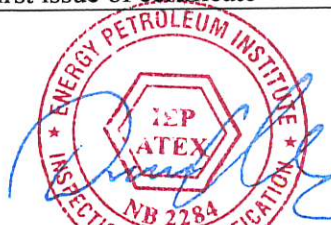
Drawing Name ;	Date;
Exploded Picture	28.02.2018
Sensor housing cover	12.02.2013
Sensor housing	12.02.2013
Epoxy settlement	12.03.2013
Coupler	12.02.2013
Coupler nut	12.02.2013
Energy wiring scheme	12.02.2013
Wiring diagram of the gas alarm device	12.02.2013
Label	28.02.2018
Metal spangle	28.02.2018
Sinter	28.02.2018

Parts that are used in GL 01 Gas Sensor Head are indicated in the unit and technical specifications Table 1 and date 28.02.2018; Additional MQ-4 Gas sensor technical specifications .

## Certificate History;

Supplement Nr	Supplement Date	Summary Description of Variation
02	29.12.2023	Standard Update (EN IEC 60079-0:2018)
01	25.03.2019	Upgrade to ATEX directive 2014/34/EU, Standard Update, Scope revision
00	06.06.2013	First issue of certificate

Responsible Person:  
Nurettin Terzioğlu  
Head of Certification Body



Supplement 02 Date of Issue : 29.12.2023



IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyon Ticaret Limited Sirketi  
5746/1 Sk. No:9 K:2 Bornova - İZMİR / TÜRKİYE Tel: +90 232 431 1745 – 46 Fax: +90 232 431 1730 E-mail: iep@iep.com.tr Fr: 45

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. You can check accuracy of this document by [www.iep.com.tr](http://www.iep.com.tr).