

**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 14 ATEX 0224**

(4) Product: **Gas Detector, Type GA 21**

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

(6) Firm Address (HQ) : **Bostancı Yolu Kuru Sokak No: 16/2 Y.Dudullu Ümraniye İstanbul – TURKEY**  
Address (FAC.) : **Çerkeşli OSB Mah. İMES 5. Cadde No:6 Dilovası İMES OSB/Kocaeli – 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.10-606-1 date 22.03.2019.

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

**EN 60079-0 : 2013 , 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 Terzioglu  
Head of Certification Body



**Supplement Date of Issue : 25.03.2019**



# IEP ENERGY PETROLEUM INSTITUTE

(13) Schedule

(14) Certificate Nr: **IEP 14 ATEX 0224**

(15) Description of Equipment;

Gas detector consists of three parts . These parts are body , cable gland and sensor head . Electronic equipments are in the interior. Gas alarm device in explosion proof body , is designed for alerting if there is any leakage of LPG or Natural gas on potentially explosive areas like an industrial kitchen or on a boiler room.

Body explosion proof code II 2G Ex d IIB T6 and certificate number PTB 03 ATEX 1021 , cable gland explosion proof code II 2 GD Ex d IIC , tD A21 and certificate number , SIRA 01 ATEX 1272X, and sensor head explosion proof code II 2G Ex db mb IIA T4 Gb and certificate number IEP ATEX 0135 X .

Gas detector Type GA 21 is equipped with cable series HD 21.13.S1/HD.22.4.S4 .Gas detector Type GA 21 is protection class of IP 65 and gas detector head sinter IP 55. Gas detector is use as zone 1 that be used danger area determined in the EN 60079-10-1 standard.

### Technical Parameters: Gas detector, Type GA 21

Detecting gasses	Natural gas and LPG
Operation Voltage	12 V AC/DC
Power	3 W
Output signal	5 A , 30 V DC or 4-20 mA
IP xy Protection	IP 65 Box / IP 55 (Sinter)
Ambient Temperature °C	- 10 ; + 50

(16) 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.

(17) List of documentation ; Gas detector Type GA 21 manual prepared in association with the gas detector and date February 2018 (10 pages)

Drawing Nr:	Drawing Name ;	Date;
2.3	Energy wiring scheme	12.11.2013
DN-002	Electronic wiring scheme	12.11.2013

(18) Parts that are used in Gas detector Type GA 21 are indicated in the units , table component list and electronic component list , date 28.02. 2018.

### Certificate History;

Supplement No	Supplement Date	Summary Description of Variation
01	25.03.2019	Upgrade to ATEX directive 2014/34/EU, Standard Update, Sensor head of scope revision
00	16.06.2014	First issue of certificate

Responsible Person :

Nurettin Terzioglu  
Head of Certification Body



Supplement Date of Issue : 25.03.2019

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