



[1] **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 14 ATEX 0224**

[4] Equipment : **Gas detector Type GA 21**

[5] Manufacturer : **SMS Sanayi Malzemeleri Üretim ve Satışı A.Ş.**

[7] Office Address : **Bostancı Yolu Kuru Sokak No: 16/2 Y.Dudullu Ümraniye İstanbul – TURKEY**
Production Address : **Çerkeşli OSB Mah. İMES 5. Cadde No:6 Dilovası İMES OSB/Kocaeli - 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 Uluslar Arası 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 - 10.606 date 13.06.2014


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

EN 60079-0 / 2009 ; EN 60079-1 / 2007 ; EN 60079-18 / 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 2G Ex d mb IIA T5 Gb

Responsible person :

Nurettin Terzioglu
Head of certification body



Date of issue : 16.06.2014





[13] Schedule

[14] Certificate Nr : **IEP 14 ATEX 0224**

[15] Description of Equipment Protective System

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 2 G 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 2 G Ex mb IIA T6 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 . 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
Ambient Temperature °C	- 10 ; + 50

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

[18] List of documentation ; Gas detector Type GA 21 manual prepared in association with the gas detector and date october 2013 (10 pages)

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

[19] Parts that are used in Gas detector Type GA 21 are indicated in the units , table component list and electronic component list , date October .2013 ;

Responsible person :

Date of issue : 16.06.2014

Nurettin Terzioglu
Head of certification body

