



## 1. **EC-TYPE EXAMINATION CERTIFICATE**

2. Equipment and protective system intended for use in potentially explosive atmospheres:

### **Directive 94/9/EC**

3. EC-Type-examination Certificate Number:

**KRH 16 ATEX 1017**

4. Equipment: **Fixed Gas Detector type SI-100**

5. Manufacturer: **SENKO Co., Ltd**

6. Address: **73, Oesammi-ro, 15 Beon-gil, Osan-si, Gyonggi-do, 447-230, Korea, Republic of**

7. This equipment or protective systems and any acceptable variation thereto are specified in the schedule to certificate and the documents therein referred to.

8. The KRH certifies that equipment 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, give in Annex II to the Directive 94/9/EC of 23 March 1994. The examination and test results are recorded in the confidential report number KRH-ATEX-0047-2015.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012 EN 60079-1:2007**

10. If the sign "X" is placed after the certificate number, it indicates that the equipment 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 and construction of the specified equipment or protective systems in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment or protective systems.

12. The marking of the equipment shall include the following:

**Ex II 2 G Ex d IIC T5 Gb IP65**

This certificate is issued at Athens on 19<sup>th</sup> April 2016, under the authority of the Hellenic Republic of Greece by KR Hellas Ltd., Notified Body No. 2198.



Notified Body No.2198



(KRH Endorse)

Shin Jeong-do

**CEO of KR Hellas Ltd**



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## SCHEDULE

14. **EC-Type-examination Certificate KRH 16 ATEX 1017**

15. **Description of equipment or protective system**

**The fixed gas detector type SI-100 is designed for;**

1) SI-100 is a fixed gas detector installed in a place where potential gas hazard exists to measure oxygen, toxic gas and combustible gas. It shows not only the concentration of gas but also diagnostic result of the unit itself through the LCD display and can be connected to the controller with a standard 4-20 mA analog output communication or RS-485 digital communication. The SI-100 fixed gas detector can be used in hazardous areas where potentially flammable gas atmosphere may be present.

2) Enclosure

The enclosure of this fixed gas detector consists of TOP CASE ASSY, BOTTOM CASE and SENSOR PART ASSY. To meet the requirement of type of protection "d", threaded joints and cemented joints are applied for enclosure. The material of enclosure is ADC12 AL. This equipment meets the requirements of ingress protection of IP65.

3) The electrical data of this gas detector: 9 V to 34 VDC (Max 130 mA at 12 V)

4) Classification of installation and use: Stationary

5) Rated ambient temperature range:  $-20\text{ }^{\circ}\text{C} \leq T_a \leq +55\text{ }^{\circ}\text{C}$

6) Power consumption: Max 1.6 W

7) Marking

Product	GAS DETECTOR	Model	SI series
Detecting gas		Serial Number	
Ex code	Ex d IIC T5 Gb IP65		
IECEX	IECEX KTL 14.0014	Power	9 to 34VDC
ATEX	XXXXXXXXXXXXX	Power consumption	1.6W
Tamb	-20°C~55°C (-4~131°F)	Date of manufacture	

Warning: "DO NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE IS PRESENT"



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## **SCHEDULE**

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15. **Description of equipment or protective system**

16. **Descriptive documents**

Certification file No.: KRH-ATEX-0047-2015

17. **Special conditions for safe use**

N/A

18. **Essential Health and Safety Requirements**

Refer to covered by standards list at 9.

