



## 1. EU-TYPE EXAMINATION CERTIFICATE

2. Equipment and Protective systems intended for use in potentially explosive atmospheres:  
**Directive 2014/34/EU**
3. EU-Type-examination Certificate Number: **KRH 16 ATEX 1017X**
4. Equipment or Protective system: **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 system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. The KRH 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 2014/34/EU of 26 February 2014.  
The examination and test results are recorded in the confidential reports listed in section 16.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0:2012+A11:2013 EN 60079-1:2014**
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 EU-Type examination Certificate relates only to the design and construction of the specified equipment or protective system in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacturing process and supply of this equipment or protective systems. These are not covered by this certificate.
12. The marking of the equipment or protective system shall include the following:

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

This certificate is issued at Athens on 2019-07-19, under the authority of the Hellenic Republic of Greece by KR Hellas Ltd., Notified Body No. 2198.



A blue ink signature of Shin Jeong-Do.

Shin Jeong-Do

**CEO of KR Hellas Ltd**



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## **SCHEDULE**

14. **EU-Type-examination Certificate KRH 16 ATEX 1017X**

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 4-20mA analog output communication or RS-485 digital communication.

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) Electrical data: 9 V ~ 34 VDC

4) Classification of installation and use: Stationary

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

16. **Descriptive documents**

Report No.: KRH-ATEX-0024-2019

17. **Specific Conditions of Use**

Read carefully instruction manual before installation and maintenance.

18. **Essential Health and Safety Requirements**

Refer to covered by standards listed at 9.

19. **Routine Verifications and Tests**

N/A





20. **Drawings and Documents**

Number	Issue	Date	Description
SENKO0705-001-SK1000	0	2019-05-21	DETECTOR_ASSY
SENKO0705-001-SK3000	0	2013-10-16	TOP CASE_ASSY
SENKO0705-001-SK4000	0	2013-10-16	TOP & BOTTOM_ASSY
SENKO0705-001-SK0001	0	2013-10-16	GLASS_GUIDE
SENKO0705-001-SK0002	0	2013-10-16	TOP CASE
SENKO0705-001-SK0003	0	2013-10-16	BOTTOM CASE
SENKO0705-001-SK0004	0	2013-10-16	GLASS
SENKO0705-001-SK0005	0	2013-10-16	BRACKET_PCB_GUIDE
SENKO0705-001-SK0012	0	2013-10-16	WINDOW_PAD
SENKO0705-001-SK0013	0	2013-10-16	CASE_O-RING (G-90)
SENKO0705-001-SK0020	0	2013-10-16	LABEL (TOP)
SENKO0705-001-SK0021	0	2019-05-21	LABEL (BOTTOM)
SENKO1304-001-SK3000	0	2013-10-16	SENSOR PART_ASSY
SENKO1304-001-SK0006	0	2013-10-16	SENSOR_GUIDE
SENKO1304-001-SK0007	0	2013-10-16	SENSOR_PCB_GUIDE
SENKO1304-001-SK0009	0	2013-10-16	SENSOR HOLDER_BOTTOM
SENKO1304-001-SK0010	0	2013-10-16	SENSOR HOLDER_TOP
SENKO1304-001-SK0011	0	2013-10-16	SENSOR_O-RING (P 20)
SENKO1304-001-SK0012	0	2013-10-16	SINTERED STAINLESS STEEL FILTER

21. **Details of Certificate changes**

Issue No.	Issue Date	Description
0	2016-04-19	Initial issue
1	2019-07-19	Updated in accordance with the state of the art standard EN 60079-1:2014.

*End of Certificate*

