



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 19 ATEX 1022X**

4. Equipment or Protective system: **Portable Single Gas Detector type SP-SGTP Series**

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 60079-11:2012

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:

Ex II 1 G Ex ia IIC T4 Ga

This certificate is issued at Athens on 2019-08-30, under the authority of the Hellenic Republic of Greece by KR Hellas Ltd., Notified Body No. 2198.



Dr. Nikos Katiforis
Quality manager
of KR Hellas Ltd.



13.

SCHEDULE

14. **EU-Type-examination Certificate KRH 19 ATEX 1022X**

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

The Portable Single Gas Detector type SP-SGTP Series are designed for;

- 1) The SP-SGT series are hand-held, battery operated single gas detectors to continuously monitor oxygen, toxic or combustible gases. The unit samples the atmosphere in diffusion mode using one electrochemical sensor for one of eight gases; O₂, CO, SO₂, H₂, H₂S, NH₃, NO₂ or CL₂.
- 2) The detector alerts the user to potentially unsafe exposure with visual, vibrating and audible alarms when gas concentration exceeds alarm set points, and readings are displayed on an LCD. The detector has IR communications for changing the alarm set points, the calibration range and the display configuration. The IR communications shall be only used in safe area.
- 3) The detector is comprised of a single printed circuit board with a LCD, a sensor and a battery, housed in a non-metallic enclosure which is constructed by double-shot injection molding with polycarbonate and thermoplastic elastomer alloy. A suspender clip is attached to the back half of the enclosure. The front half, the back half and the suspender clip of the enclosure are secured by screws. The detector has no facilities for connection of external circuits.
- 4) Power is provided by one, non-user replaceable, 3.6 V Lithium/Thionyl chloride (Li/SOCl₂) battery containing one primary cell (Tekcell, type SB-AA02(P) manufactured by VITZRO CELL, Nominal 3.6 V, Peak 3.9V, 1.2 Ah). The ambient temperature ranges for the series are as follows: $-40\text{ }^{\circ}\text{C} \leq T_a \leq +50\text{ }^{\circ}\text{C}$ (for CO, H₂, H₂S, NH₃ and NO₂ types), $-30\text{ }^{\circ}\text{C} \leq T_a \leq +50\text{ }^{\circ}\text{C}$ (for O₂ and SO₂ types) and $-20\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$ (for CL₂ type).
- 5) The configuration for SP-SGTP series is as follows:
SP-SGTP-A :
- SP-SGTP : Model name
- A : Gas type (O₂, CO, SO₂, H₂, H₂S, NH₃, NO₂ or CL₂)
- 6) For the detail information, see the Safety instructions.

16. **Descriptive documents**

Report No.: KRH-ATEX-0040-2019

17. **Specific Conditions of Use**

- 1) WARNING - DO NOT REPLACE ANY PARTS OF THE PRODUCT INCLUDING THE INTERNAL BATTERY BY THE USER- SEE INSTRUCTIONS.





2) All the parts of the product including the internal battery are not intended to be replaced by the user. The parts shall be installed and replaced without reducing the intrinsic safety of the apparatus in non-hazardous area by the manufacturer only, at manufacture, during repair or overhaul. The user shall consult the manufacturer if there is any problem during the usage.

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
1534SGTPB630-400	1.0	2019-04-11	CIR_ Main Block diagram
1535SGTPB631-400	1.0	2019-04-11	CIR_ Main Circuit Diagram
1536SGTPB632-200	1.0	2019-04-11	PCB_ Main Routing Top
1537SGTPB633-200	1.0	2019-04-11	PCB_ Main Routing Bottom
1538SGTPB634-200	1.0	2019-04-11	PCB_ Main Mask Top
1539SGTPB635-200	1.0	2019-04-11	PCB_ Main Mask Bottom
1540SGTPB636-200	1.0	2019-04-11	PCB_ Main Silk Top
1541SGTPB637-200	1.0	2019-04-11	PCB_ Main Silk Bottom
1542SGTPB638-200	1.0	2019-04-11	PCB_ Main Drill Drawing
1543SGTPB639-500	1.0	2019-04-11	PAR_ MAIN PART LIST
1544SGTPB640-100	1.0	2019-04-11	ASS_ ASSY MAIN
1545SGTPB641-300	1.0	2019-04-11	DRA_ FRONT COVER
1546SGTPB642-300	1.0	2019-04-11	DRA_ BACK COVER
1547SGTPB643-300	1.0	2019-04-11	DRA_ LCD BRACKET
1548SGTPB644-300	1.0	2019-04-11	DRA_ GAS TYPE STICKER
1549SGTPB645-300	1.0	2019-04-11	DRA_ GAS TYPE STICKER TAPE
1550SGTPB646-300	1.0	2019-04-11	DRA_ SENSOR RUBBER
1551SGTPB647-300	1.0	2019-04-11	DRA_ SENSOR RUBBER TAPE
1552SGTPB648-300	1.0	2019-04-11	DRA_ SENSOR RUBBER SHEET
1553SGTPB649-100	1.0	2019-04-11	ASS_ BELT CLIP
1558SGTPB654-100	1.0	2019-04-11	ASS_ MAIN PCB
1559SGTPB655-300	1.0	2019-04-11	DRA_ LABEL STICKER
1560SGTPB656-300	1.0	2019-04-11	DRA_ BATT TERMINAL
1561SGTPB657-300	1.0	2019-04-11	DRA_ INNER LABEL STICKER
1563SGTPB659-300	1.0	2019-04-11	DRA_ MAIN STICKER
1562SGTPE202-900	1.0	-	SGTP Safety Instructions(User's Manual)



KR HELLAS LTD.
41, Athinas Av., Vouliagmeni,
GR-16671, Athens, Greece

TEL: +30-210-428-6736
FAX: +30-210-428-6728



Certificate No:
KRH 19 ATEX 1022X
Issue No: 0 (2019-08-30)

Page: 4/4

21. **Details of Certificate changes**

Issue No.	Issue Date	Description
0	2019-08-30	Initial issue

End of Certificate

