



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEX KTL 19.0019X

Issue No: 0

Certificate history:

Issue No. 0 (2019-06-21)

Status: **Current**

Page 1 of 3

Date of Issue: **2019-06-21**

Applicant: **SENKO Co., Ltd.**  
73, Oesammi-ro 15beon-gil, Osan-si, Gyeonggi-do  
Korea, Republic of

Equipment: **Portable Single Gas Detector, SP-SGTP Series**  
Optional accessory:

Type of Protection: **Intrinsic Safety "I"**

Marking:  
Ex ia IIC T4 Ga

Approved for issue on behalf of the IECEX  
Certification Body:


Park Jong-koo

Position:

Certification Manager

Signature:  
(for printed version)

Date:

  
2019-06-21

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

**Korea Testing Laboratory**  
87, Digital-ro, 28-gil, Guro-gu  
Seoul  
Korea, Republic of





# IECEX Certificate of Conformity

Certificate No: IECEX KTL 19.0019X Issue No: 0  
Date of Issue: 2019-06-21 Page 2 of 3  
Manufacturer: SENKO Co., Ltd.  
73, Oesammi-ro 15beon-gil, Osan-si, Gyeonggi-do  
Korea, Republic of

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

#### STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-26 : 2014-10</b> Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

KR/KTL/ExTR19.0019/00

Quality Assessment Report:

KR/KTL/QAR14.0003/03



# IECEX Certificate of Conformity

Certificate No: IECEx KTL 19.0019X

Issue No: 0

Date of Issue: 2019-06-21

Page 3 of 3

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The SP-SGTP 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: O<sub>2</sub>, CO, SO<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, NO<sub>2</sub> or Cl<sub>2</sub>.

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 point, the calibration range and the display configuration. The IR communications shall be only used in safe area.

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.

Power is provided by one, non-user replaceable, 3.6 V Lithium/Thionyl chloride (Li/SOCl<sub>2</sub>) battery containing one primary cell (Tekcell, type SB-AA02(P) manufactured by VITZRO CELL, Nominal 3.6 V, Peak 3.9 V, 1.2 Ah). The ambient temperature ranges for the series are as follows: -40 °C ≤ T<sub>a</sub> ≤ +50 °C (for CO, H<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub> and NO<sub>2</sub> types), -30 °C ≤ T<sub>a</sub> ≤ +50 °C (for O<sub>2</sub> and SO<sub>2</sub> types) and -20 °C ≤ T<sub>a</sub> ≤ +40 °C (for CL<sub>2</sub> type).

The configuration for SP-SGTP series is as follows;

SP-SGTP-A

- SP-SGTP: Model name

- A: Gas Type(O<sub>2</sub>, CO, SO<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, NO<sub>2</sub> or CL<sub>2</sub>)

For the detailed information, see the safety instructions.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

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

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.