



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

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Status: **Current** Issue No: 0

Date of Issue: 2024-08-07

Applicant: **SENKO Co., Ltd.**  
445, Doksanseong-ro  
Osan-si, Gyeonggi-do 18111  
**Korea, Republic of**

Equipment: **Portable VOCs Gas Detector V-PRO**

Optional accessory:

Type of Protection: **intrinsic safety "i"**

Marking: **Ex ia IIC T4 Ga**  
**(-20 °C ≤ Ta ≤ +50 °C)**

Approved for issue on behalf of the IECEx  
Certification Body:

**Sang He Kim**

Position:

**President of the Board**

Signature:  
(for printed version)

Date:  
(for printed version)

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**KSC POLAND Sp. z o.o.**  
**Chorzowska 150 Street**  
**Katowice 40-101**  
**Poland**





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Date of issue: 2024-08-07

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Manufacturer: **SENKO Co., Ltd.**  
445, Doksanseong-ro  
Osan-si, Gyeonggi-do 18111  
**Korea, Republic of**

Manufacturing  
locations: **SENKO Co., Ltd.**  
445, Doksanseong-ro  
Osan-si, Gyeonggi-do 18111  
**Korea, Republic of**

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 equipment 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

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with 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:

**PL/KSCP/ExTR24.0040/00**

Quality Assessment Report:

**KR/KTL/QAR14.0003/09**



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Date of issue: 2024-08-07

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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The V-PRO is an intrinsically safe portable gas detector with a built-in pump that works to detect ambient volatile organic compounds (VOCs) for use in explosive atmospheres EPL Ga, Gas Group IIC and Temperature Class T4.

This gas detector includes one VOCs sensor, an LCD display panel on the front of the instrument displays sensor readings in real time and displays selected functions. Four buttons on the front allow users to select pre-programmed functions and turn the device on and off.

The V-PRO provides audible, visual and tactile alarms when the measured gas concentration reaches a preset alarm concentration. Audible and visual alarm indicators are placed on the front panel for easy recognition. The device operates on battery power from an integrated rechargeable battery pack containing a lithium-ion cell battery.

The enclosure is made in plastic material and it also includes the gas inlet probe and the charger connector. The battery pack is partially encapsulated, the board is encapsulated while the batteries are kept exposed.

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

- The charging port can only be used in safe area. The charging process can only be conducted in an environment with ambient temperature range from +10 °C to +45 °C.
- IR communication port can only be used in safe area.

## **Annex:**

[IECEx\\_KSCP\\_24.0040\\_Addendum.pdf](#)



## Addendum to IECEx Certificate

Reference Number.....:	<b>IECEx KSCP 24.0040X</b>
Issue.....:	Issue 0

### Description

The V-PRO is an intrinsically safe portable gas detector with a built-in pump that works to detect ambient volatile organic compounds (VOCs) for use in explosive atmospheres EPL Ga, Gas Group IIC and Temperature Class T4.

This gas detector includes one VOCs sensor, an LCD display panel on the front of the instrument displays sensor readings in real time and displays selected functions. Four buttons on the front allow users to select pre-programmed functions and turn the device on and off.

The V-PRO provides audible, visual and tactile alarms when the measured gas concentration reaches a preset alarm concentration. Audible and visual alarm indicators are placed on the front panel for easy recognition. The device operates on battery power from an integrated rechargeable battery pack containing a lithium-ion cell battery.

The enclosure is made in plastic material and it also includes the gas inlet probe and the charger connector. The battery pack is partially encapsulated, the board is encapsulated while the batteries are kept exposed.

Product will be marked as follows:

Item	Detail
Name of Manufacturer/Trade mark	SENKO Co., Ltd <b>SENKO</b>
Address of manufacturer	73, Oesammi-ro 15 beon-gil, Gyeonggi-do, 447-230, South Korea
Equipment name	Portable VOCs Gas Detector
Type identification	V-PRO
Serial No. and year of manufacture	SPXXXXXXXXXX
IECEx certificate number	IECEx KSCP 24.0040X
Code	Ex ia IIC T4 Ga (-20 °C ≤ Ta ≤ +50 °C)
Ambient	- 20 °C ~ + 50 °C
Warnings	N/A
Rating	The product is battery powered 2P1S (2x Lithium-Ion Polymer, 3.7V 4,400 mAh). Charger connector (J4 / J5): Um = 6.2 V

Used cell is as follows:

Type name	Cell type (Secondary)	Nominal Ratings	Max. Open-circuit voltage (V)	Temperature range specified on battery data sheet	Equipment ambient temperature range	Manufacturer
Li-ion Battery NCA103450	Anode: Graphite (Carbon) Cathode: Nickel Manganese Cobalt (NMC) Electrolyte:	3.7 V 2200 mAh	4.35 V	Charge: +10 °C to +45 °C  Discharge: -20 °C to +60 °C	Charge: +10 °C to 45 °C  Discharge: -20 °C to +50 °C	SANYO Electric

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	EC+DMC+EMC, LiPF6					
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**Conditions of manufacture:**  
None routine testing is required.

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