

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

Certificate No.: **IECEx KSCP 24.0025X** Page 1 of 3 Certificate history:

Issue No: 0 Status: Current

2024-07-05 Date of Issue:

Applicant: SENKO Co., Ltd.

445, Doksanseong-ro Osan-si, Gyeonggi-do 18111

Korea, Republic of

Equipment: Portable Dual Gas Detector DUO TRACER Series

Optional accessory:

intrinsic safety "i", Protection of optical radiation "op" Type of Protection:

Marking: Ex ia op is IIC T4 Ga or

Ex ia IIC T4 Ga

Ta: - 20 °C ~ + 50 °C

Approved for issue on behalf of the IECEx Sang He Kim

Certification Body:

Position: President of the Board

Signature:

(for printed version)

(for printed version)

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Certificate issued by:

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





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445, Doksanseong-ro Osan-si, Gyeonggi-do 18111

Korea, Republic of

Manufacturing SENKO Co., Ltd.

locations: 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

1 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

IEC 60079-11:2011 Edition:6.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

Edition:2

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/ExTR24.0025/00

Quality Assessment Report:

KR/KTL/QAR14.0003/09



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Duo tracer series is a portable dual gas detector through the diffusion method that works to detect ambient oxygen, toxic and explosive gases.Refer to certificate addendum.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Only the battery SB-AA02(P) (Vitzrocell) can be used. The battery can only be replaced in safe area.
- The LCD screen is covered with an electrostatic dissipating film and must be inspected periodically according to the equipment
 instructions. If the film is found not complying with the inspection conditions, it must be reapplied according to the manufacturer
 instructions.

Annex:

IECEx_KSCP_24.0025_Addendum.pdf



Addendum to IECEx Certificate

Reference Number:	IECEx KSCP 24.0025X
Issue:	Issue 0

Description

The Duo tracer series is a portable dual gas detector through the diffusion method that works to detect ambient oxygen, toxic and explosive gases.

This gas detector includes two sensors. One is a oxygen or toxic gas sensor and the other one is a choice between the toxic or explosive gas sensor. An LCD display panel on the front of the instrument displays sensor readings in real time and displays selected functions. One button on the front allows users to select pre-programmed functions and turn the device on and off.

The Duo tracer series provides audible, visible 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 is operated on battery power from a lithium thionyl chloride primary battery 1-cell which is replaceable when the battery has gone out.

The model formation rule is according to the following:

(a) Model name		Gas Type		(b) Ex mark
	X	Ch-A	Ch-B	
	1	02	CH4 ^(*)	Fulls on its IIC TA Co
	2	O2	CO2 ^(*)	Ex ia op is IIC T4 Ga
	3		CO	
	4		H2S	
	5	O2	SO2	
	6		H2	
	7		NO2	
DUO TRACER-x	8		NH3	
	9		O3	Ex ia IIC T4 Ga
	A	NO2	CO	
	В		H2S	
	С		SO2	
	D	SO2	H2S	
	Е		CO	
	F	NH3	CO	

^{*} These sensors are NDIR sensors, and the rest are electrochemical sensors.

Product will be marked as follows:

Item	Detail
Name of Manufacturer/Trade mark	Senko Co., Ltd.
Address of manufacturer	445, Doksanseong-ro, Osan-si, Gyeonggi-do, Republic of Korea
Equipment name	Portable Dual Gas Detector
Type identification	Duo Tracer series
Serial No. and year of manufacture	SPXXXXXXXX

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IECEx certificate number	IECEx KSCP 24.0025X
Code	Ex ia op is IIC T4 Ga or Ex ia IIC T4 Ga
Ambient	- 20 °C ~ + 50 °C
Warnings	WARNING – DO NOT OPEN OR REPLACE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
Rating	The product is battery powered 1P1S (1x Primary Lithium Thionyl-Chloride Li-SOCl ₂), nominal voltage 3.6 V – Battery SB-AA02(P) (Vitzrocell)

Used cell is as follows:

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Type name	Cell type	Nominal Ratings	Max. Open- circuit voltage (V)	Temperature range specified on battery data sheet		Manufacturer
SB-AA02(P)	Anode: Lithium (Li) Cathode: Thionyl Chloride (SOCl ₂)	3.6 V 1.2 Ah	3.90 V	-55 °C to +85 °C	-20 °C to +50 °C	Vitzrocell

Conditions of manufacture:

None routine testing is required.

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