

KSC POLAND Sp. z o.o.

(1) EU-TYPE EXAMINATION CERTIFICATE

(2) **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

(3) EU-Type Examination

Certificate No.:

KSCP 24ATEX0016X, Issue: 0

(4) Product:

Portable Dual Gas Detector DUO TRACER Series

(5) Manufacturer:

Senko Co., Ltd.

(6) Address:

**445, Doksanseong-ro, Osan-si, Gyeonggi-do, 18111,
Korea, Republic of**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KSC POLAND Sp. z o.o., Notified Body number 2877, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **KSCP/AR/24/Q00366**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018
EN 60079-28:2015**

EN 60079-11:2012

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU – Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



**II 1G Ex ia IIC T4 Ga or
II 1G Ex ia op is IIC T4 Ga**

Signature
President of the Board



Katowice, 5th July, 2024



KSC POLAND Sp. z o.o., Products Certification Body, accredited by PCA, No. AC 216

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SCHEDULE

CERTIFICATE No.: KSCP 24ATEX0016X, Issue: 0

(13)

(14)

(15) Description of Product:

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	
DUO TRACER-x	1	O ₂ CH ₄ ^(*)	Ex ia op is IIC T4 Ga
	2	CO ₂ ^(*)	
	3	O ₂ CO	Ex ia IIC T4 Ga
	4	H ₂ S	
	5	SO ₂	
	6	H ₂	
	7	NO ₂	
	8	NH ₃	
	9	O ₃	
	A	NO ₂ CO	
	B	H ₂ S	
	C	SO ₂	
	D	SO ₂ H ₂ S	
	E	CO	
	F	NH ₃ CO	

※ These sensors are NDIR sensors, and the rest are electrochemical sensors.

Rating:

Supply	The product is battery powered 1P1S (1x Primary Lithium Thionyl-Chloride Li-SOCl ₂), nominal voltage 3.6 V – Battery SB-AA02(P) (Vitzrocell)
Ingress protection	IP20
Ambient Temperature	Ta: -20 °C ~ + 50°C



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(16) Report Number:

– **KSCP/AR/24/Q00366**

(17) Specific Conditions of Use:

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

(18) Essential Health and Safety Requirements:

Essential Health and Safety Requirements are ensured by conformity with standards listed at item 9 of this certificate.

(19) Drawings and Documents:

- Documentation agreed, provided by manufacturer:

Title:	Drawing No.:	Rev. Level:	Date:
Circuit block Diagram	EX-2102DUOTRACERB652-400	1.0	2024-04-18
DUO TRACER 1/3	EX-2103DUOTRACERB653-400	1.0	2024-05-02
DUO TRACER 2/3	EX-2103DUOTRACERB653-400	1.0	2024-05-02
DUO TRACER 3/3	EX-2103DUOTRACERB653-400	1.0	2024-05-02
PCB_Main Routing Top	EX-2104DUOTRACERB654-200	1.0	2024-04-18
PCB_Main Routing Bottom	EX-2105DUOTRACERB655-200	1.0	2024-04-18
PCB_Main Mask Top	EX-2106DUOTRACERB656-200	1.0	2024-04-18
PCB_Main Mask Bottom	EX-2107DUOTRACERB657-200	1.0	2024-04-18
PCB_Main Silk Top	EX-2108DUOTRACERB658-200	1.0	2024-04-18
PCB_Main Silk Bottom	EX-2109DUOTRACERB659-200	1.0	2024-04-18
PCB_Main Drill Drawing	EX-2110DUOTRACERB660-200	1.0	2024-04-18
PAR_Main Part List	EX-2111DUOTRACERB661-500	1.0	2024-05-03
ASS DUO TRACER_EX	EX-2112DUOTRACERB662-100	1.0	2023-09-08
TOP COVER	EX-2113DUOTRACERB663-300	1.0	2023-09-08
BOTTOM COVER	EX-2114DUOTRACERB664-300	1.0	2023-09-08
LCD_BRACKET	EX-2115DUOTRACERB665-300	1.0	2023-09-08
LCD_PORON	EX-2116DUOTRACERB666-300	1.0	2023-09-08
LCD_SHEET	EX-2117DUOTRACERB667-300	1.0	2023-09-08
PCB	EX-2118DUOTRACERB668-200	1.0	2023-09-08



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SENSOR_PAD_A	EX-2119DUOTRACERB669-300	1.0	2023-09-08
SENSOR_PAD_B	EX-2120DUOTRACERB670-300	1.0	2023-09-08
LCD	EX-2121DUOTRACERB671-500	1.0	2023-09-08
ASS_Belt_Clip	EX-2122DUOTRACERB672-300	1.0	2023-09-08
Belt_Clip_A	EX-2123DUOTRACERB673-300	1.0	2023-09-08
Belt_Clip_B	EX-2124DUOTRACERB674-300	1.0	2023-09-28
Belt_Clip_C	EX-2125DUOTRACERB675-300	1.0	2023-09-28
Belt_Clip_D	EX-2126DUOTRACERB676-300	1.0	2023-09-28
LABEL	EX-2127DUOTRACERB677-300	1.0	2023-09-28
LOGO_LABEL	EX-2128DUOTRACERB678-300	1.0	2023-09-28
TERMINAL	EX-2129DUOTRACERB679-200	1.0	2023-12-06
SENSOR_STIFFENER_A	EX-2130DUOTRACERB680-300	1.0	2023-12-06
SENSOR_STIFFENER_B	EX-2131DUOTRACERB681-300	1.0	2023-09-28
LABEL DESCRIPTION	EX-2135DUOTRACERB685-100	1.0	2024-05-16

– Product instruction:

Title:	Document No.:	Rev. Level:	Date:
General Information	EX-2100DUOTRACERB650-100	1.0	2024-05-13
Instructions Manual	EX-2101DUOTRACERB651-100	1.0	2024-05-16

A detailed list of documents necessary to identify the approved type is included in the Report referred to in point 16 of this certificate.

(20) Certificate history:

Issue	Issue date	Notes
0	5 th July, 2024	Initial certification



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