

DUO TRACER

Portable Dual Gas Detector



DESCRIPTION

DUO TRACER is a portable gas detector that uses the diffusion method to warn of dangerous environments related to gases. The detector indicates the concentration of oxygen, explosive or toxic gases on the LCD monitor. It is easy and simple to operate. The device alerts workers to danger with an alarm, LED, and vibration when gas levels exceed safety thresholds. It shows the gas concentration in real time and identifies the maximum and minimum concentration. Settings can be modified via wireless or Senko IR Link (optional).

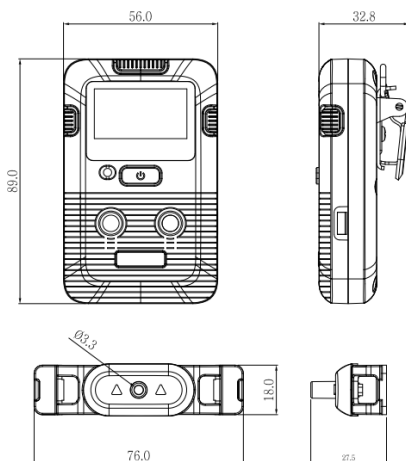
KEY FEATURES

- Dual gas detection
- Wireless and IR connectivity
- Real-time monitoring
- Water/dust proof (IP67)
- Compact and lightweight
- High-performance alarms
- Automatically logs up to 30 alarm events
- Easy configuration and manage data using the IR Link
- User-friendly operation

SPECIFICATION

Model	DUO TRACER
Sensor Type	Electrochemical, Non-Dispersive Infrared (NDIR)
Measuring Method	Diffusion
Enclosure Material	Rubberized Polycarbonate
Dimensions	2.2 (W) x 3.5 (H) x 0.83 (D) inch 56 (W) x 89 (H) x 21 (D) mm
Weight	7.05oz (200g)
Operating Temperature	-4°F to +122°F (-20°C to +50°C)
Operating Humidity	15% to 90% RH (Non-condensing)
Data Logging	Stores up to the most recent 30 alarm events
IP Rating	IP67 (Waterproof and dustproof)
Alarm Types	Visual: LCD display and flashing LEDs Audible: Buzzer Vibration: Vibration alert
Display	Liquid Crystal Display (LCD)
User Interface	Single button for operation
Battery Type	Replaceable primary cell 3.6V Thionyl chloride (Li/SOCI ₂)
Battery Life	DUO TRACER-1 to 2: Approximately 3 months (with NDIR sensor applied) DUO TRACER-3 to 9, A to F: Approximately 2 years * Battery life is based on 8 hours of daily use with wireless functionality turned off. * Battery life may vary depending on usage patterns and environmental conditions.
Environmental Condition	Pollution Degree: 2 (Equipment is suitable for use in environments with moderate contamination, including dust and occasional condensation) Atmospheric Pressure: 80 kPa to 120 kPa Components: Calibration Cap, Manual, Calibration and Test Certificate Attachment Method: Equipped with a clip for attachment to clothing, belts, or helmets
Warranty	2 years from the date of purchase

DIMENSION (Unit:mm)



ACCESSORIES



IR Link Communication

Connects to the computer in order to program configuration and download data log



Dock DUO

Performs calibration, bump test, and automatic updates for up to 4 Duo Tracer units simultaneously.

SENSOR CONFIGURATION

Model Name		Gas Type	
Model	x(*)	Ch-A (Slot 1)	Ch-B (Slot 2)
DUO TRACER-x(*)	1		CH ₄ (Methane)**
	2		CO ₂ (Carbon Dioxide)**
	3		CO (Carbon Monoxide)
	4		H ₂ S (Hydrogen Sulfide)
	5	O ₂ (Oxygen)	SO ₂ (Sulfur Dioxide)
	6		H ₂ (Hydrogen)
	7		NO ₂ (Nitrogen Dioxide)
	8		NH ₃ (Ammonia)
	9		O ₃ (Ozone)
	10 (A)		CO (Carbon Monoxide)
	11 (B)	NO ₂ (Nitrogen Dioxide)	H ₂ S (Hydrogen Sulfide)
	12 (C)		SO ₂ (Sulfur Dioxide)
	13 (D)	SO ₂ (Sulfur Dioxide)	H ₂ S (Hydrogen Sulfide)
	14 (E)		CO (Carbon Monoxide)
	15 (F)	NH ₃ (Ammonia)	CO (Carbon Monoxide)
	16	CO (Carbon Monoxide)	H ₂ S (Hydrogen Sulfide)

Ch-A (Slot 1): This slot allows for the selection of various gases, such as Oxygen (O₂), Carbon Monoxide (CO), Hydrogen Sulfide (H₂S), and others.

Ch-B (Slot 2): This slot is designed to accommodate additional gases, such as Methane (CH₄), Carbon Dioxide (CO₂), Sulfur Dioxide (SO₂), and more.

APPLICABLE SENSOR SPECIFICATIONS

Gas	Sensor Type	Measuring Range	Resolution	Low Alarm	High Alarm
Methane (CH ₄)	NDIR	0 ~ 100 %LEL	1% LEL	10 %LEL	30 %LEL
Carbon Dioxide (CO ₂)	NDIR	0 ~ 5 %vol	0.01 %vol	0.5 %vol	1.0 %vol
Carbon Monoxide (CO)	Electrochemical	0 ~ 500 ppm	1 ppm	30 ppm	60 ppm
Hydrogen Sulfide (H ₂ S)	Electrochemical	0 ~ 100 ppm	0.1 ppm	10 ppm	15 ppm
Sulfur Dioxide (SO ₂)	Electrochemical	0 ~ 20 ppm	0.1 ppm	2 ppm	5 ppm
Hydrogen (H ₂)	Electrochemical	0 ~ 1,000 ppm	1 ppm	100 ppm	500 ppm
Ammonia (NH ₃)	Electrochemical	0 ~ 100 ppm	1 ppm	25 ppm	35 ppm
Nitrogen Dioxide (NO ₂)	Electrochemical	0 ~ 20 ppm	0.1 ppm	3 ppm	5 ppm
Oxygen (O ₂)	Electrochemical	0 ~ 30 %vol	0.1 %vol	19 %vol	23 %vol
Ozone (O ₃)	Electrochemical	0 ~ 5 ppm	0.1 ppm	0.1 ppm	0.2 ppm

* HCl sensor is currently under development and will be available soon.

CERTIFICATION

IECEX	IECEX KSCP24.0025X	DUO TRACER-1 to 2	Ex ia op is IIC T4 Ga
		DUO TRACER-3 to 9, A to F	Ex ia IIC T4 Ga
ATEX	KSCP24ATEX0016X	DUO TRACER-1 to 2	Ex ia op is IIC T4 Ga
		DUO TRACER-3 to 9, A to F	Ex ia IIC T4 Ga
CSA/UL	LC24CA22376-1	DUO TRACER-1 to 2	Ex ia op is IIC T4 Ga
		DUO TRACER-3 to 9, A to F	Ex ia IIC T4 Ga
CNEEx	24.4201X	DUO TRACER-1 to 2	Ex ia op is IIC T4 Ga
		DUO TRACER-3 to 9, A to F	Ex ia IIC T4 Ga
KCs	24-GA2BO-0613X	DUO TRACER-1 to 2	Ex ia IIC T4 Ga
		DUO TRACER-3 to 9, A to F	Ex ia IIC T4 Ga