

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).

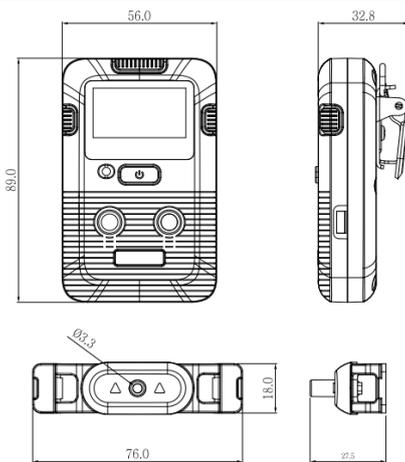
KEY FEATURE

- **Dual Gas Detection:** Simultaneously detects two gases for comprehensive monitoring.
- **Wireless and IR Connectivity:** Easy connection and configuration.
- **Real-time Monitoring:** Continuous gas concentration readings.
- **IP67 Rating:** Water and dustproof for rugged environments.
- **Compact and Lightweight:** Portable design for easy handling.
- **High-performance Alarms:** Visual, audible, and vibration alerts.
- **Event Log:** Automatically logs up to 30 alarm events.
- **IR Link Configuration:** Easy data management and setup.
- **User-friendly Operation:** Simple interface for ease of use.
- **Multi-docking Station:** Simultaneous bump test and calibration.
- **Explosion-proof Certification:** Complies with global explosion-proof standard.

SPECIFICATION

Model	DUO TRACER
Sensor Type	Electrochemical, Non-Dispersive Infrared (NDIR)
Measuring Method	Diffusion
Enclosure Material	Rubberized Polycarbonate
Dimensions	56(W) x 89(H) x 21(D) mm 2.2(W) x 3.5(H) x 0.83(D) inch
Weight	200g (7.05oz)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)
Operating Humidity	15% to 90% RH (Non-condensing)
Data Logging	Most recent 30 alarms
IP Rating	IP67 (Waterproof and Dustproof)
Alarm	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 (Li/SOCI2)
Battery Life	DUO TRACER-x (Excluding 1, 2 and H): Approximately 2 years DUO TRACER-1, 2 and H: Approximately 3 months (with NDIR sensor applied) * Battery life is based on 8 hours of daily use with wireless turned off. * Battery life may vary depending on usage patterns and operating environment.
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

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

CERTIFICATION

IECEX	IECEX KSCP 24.0025X	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	KSCP 24ATEX0016X	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
INMETRO	BRA 25.GE0013X	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 & CPA	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 24-GA2BO-0612X	DUO TRACER-1 to 2	Ex ia IIC T4 Ga
		DUO TRACER-3 to 9, A to F	Ex ia IIC T4 Ga
etc.	PESO, RoHs2, FCC, EMC		

SENSOR CONFIGURATION

Model Name		Gas Type		Model Name		Gas Type		
Model	x	Ch-A (Slot 1)	Ch-B (Slot 2)	Model	x	Ch-A (Slot 1)	Ch-B (Slot 2)	
DUO TRACER-x	1	O ₂	CH ₄ (*)		A		CO	
	2		CO ₂ (*)		A-W(**)		NO ₂	CO
	3		CO		B		H ₂ S	
	3-W(**)		CO		C		SO ₂	
	4		H ₂ S		D		H ₂ S	
	5		SO ₂		E		CO	
	6		H ₂		E-W(**)		CO	
	7		NO ₂		F		CO	
	8		NH ₃		F-W(**)		CO	
9	O ₃	G	CO	H ₂ S				
				H	H ₂ S	CO ₂		

(*) These sensors are NDIR sensors.

(**) The second suffix "-W" indicates the CO 2,000 ppm range.

APPLICABLE SENSOR SPECIFICATIONS

Gas	Measuring Range	Resolution	Low Alarm	High Alarm
CH ₄	0 ~ 100 %LEL	1% LEL	10 %LEL	30 %LEL
CO ₂	0 ~ 5 %vol	0.01 %vol	0.5 %vol	1.0 %vol
CO	0 ~ 500 ppm	1 ppm	30 ppm	60 ppm
CO	0 ~ 2,000 ppm	1 ppm	30 ppm	60 ppm
H ₂ S	0 ~ 100 ppm	0.1 ppm	10 ppm	15 ppm
SO ₂	0 ~ 20 ppm	0.1 ppm	2 ppm	5 ppm
H ₂	0 ~ 1,000 ppm	1 ppm	100 ppm	500 ppm
NH ₃	0 ~ 100 ppm	1 ppm	25 ppm	35 ppm
NO ₂	0 ~ 20 ppm	0.1 ppm	3 ppm	5 ppm
O ₂	0 ~ 30 %vol	0.1 %vol	19 %Vol	23 %Vol
O ₃	0 ~ 5 ppm	0.1 ppm	0.1 ppm	0.2 ppm