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).

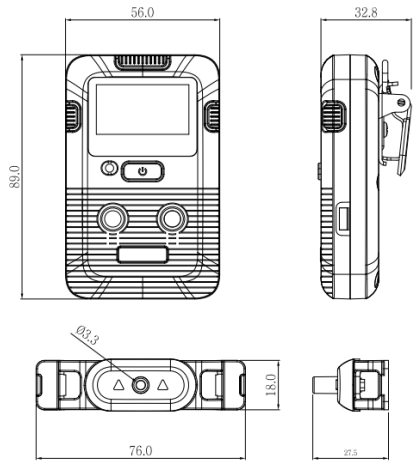
KEY FEATURES

- **Dual Gas Detection**: 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 Thionyl chloride (Li/SOCl2)
Battery Life	**DUO TRACER-1 to 2**: Approximately 3 months (with NDIR sensor applied) **DUO TRACER-3 to 17**: 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.

CERTIFICATION

IECEx	IECEx KSCP 24.0025X	DUO TRACER-1 to 2	Ex ia op is IIC T4 Ga
		DUO TRACER-3 to 16	Ex ia IIC T4 Ga
ATEX	KSCP24ATEX0016X	DUO TRACER-1 to 2	Ex ia op is IIC T4 Ga
		DUO TRACER-3 to 16	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 16	Ex ia IIC T4 Ga
CNEx & CPA	24.4201X	DUO TRACER-1 to 2	Ex ia op is IIC T4 Ga
		DUO TRACER-3 to 16	Ex ia IIC T4 Ga
KCs	24-GA2BO-0613X	DUO TRACER-1 to 2	Ex ia IIC T4 Ga
	24-GA2BO-0612X	DUO TRACER-3 to 16	Ex ia IIC T4 Ga
etc.	RoHs2, FCC(DUO TRACER 1 to 15), EMC(DUO TRACER 1to 15)		

SENSOR CONFIGURATION

Model Name		Gas Type	
Model	**x(*)**	**Ch-A (Slot 1)**	**Ch-B (Slot 2)**
DUO TRACER-x(*)	1	O2	CH4(**)
	2		CO2(**)
	3		CO
	4		H2S
	5		SO2
	6		H2
	7		NO2
	8		NH3
	9		O3
	10 (A)	NO2	CO
	11 (B)		H2S
	12 (C)		SO2
	13 (D)	SO2	H2S
	14 (E)		CO
	15 (F)	NH3	CO
	16	CO	H2S
	17	H2S	CO2

***Ch-A (Slot 1)**: This slot allows for the selection of various gases, such as Oxygen (O_2), Carbon Monoxide (CO), Hydrogen Sulfide (H_2S), and others.*
***Ch-B (Slot 2)**: This slot is designed to accommodate additional gases, such as Methane (CH_4), Carbon Dioxide (CO_2), Sulfur Dioxide (SO_2), and more.*

APPLICABLE SENSOR SPECIFICATIONS

Gas	Measuring Range	Resolution	Low Alarm	High Alarm
Methane (CH_4)	0 ~ 100 %LEL	1% LEL	10 %LEL	30 %LEL
Carbon Dioxide (CO_2)	0 ~ 5 %vol	0.01 %vol	0.5 %vol	1.0 %vol
Carbon Monoxide (CO)	0 ~ 500 ppm	1 ppm	30 ppm	60 ppm
Hydrogen Sulfide (H_2S)	0 ~ 100 ppm	0.1 ppm	10 ppm	15 ppm
Sulfur Dioxide (SO_2)	0 ~ 20 ppm	0.1 ppm	2 ppm	5 ppm
Hydrogen (H_2)	0 ~ 1,000 ppm	1 ppm	100 ppm	500 ppm
Ammonia (NH_3)	0 ~ 100 ppm	1 ppm	25 ppm	35 ppm
Nitrogen Dioxide (NO_2)	0 ~ 20 ppm	0.1 ppm	3 ppm	5 ppm
Oxygen (O_2)	0 ~ 30 %vol	0.1 %vol	19 %Vol	23 %Vol
Ozone (O_3)	0 ~ 5 ppm	0.1 ppm	0.1 ppm	0.2 ppm