



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.



DUO TRACER

Technical Specifications

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 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)
Components	Atmospheric Pressure: 80 kPa to 120 kPa
Attachment Method	Calibration Cap, Manual, Calibration and Test Certificate
Warranty	Equipped with a clip for attachment to clothing, belts, or helmets 2 years from the date of purchase

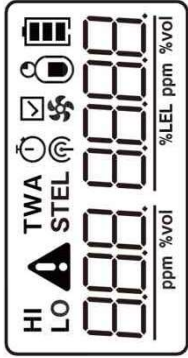
Sensor Specifications

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
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

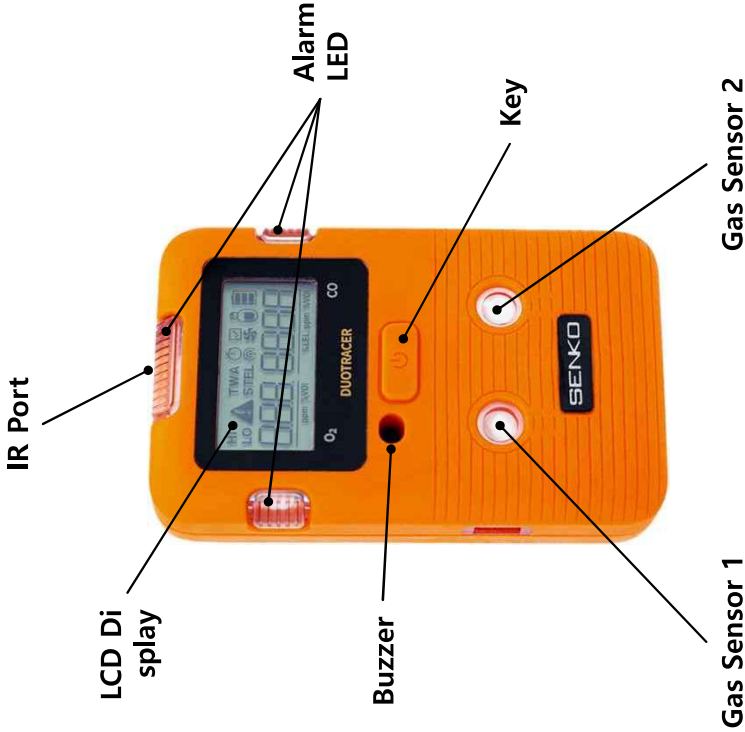


● Product Overview

● LCD Symbol



Icon	Name
LO	Low Alarm
HI	High Alarm
▲	Alarm
STEL	STEL
TWA	TWA
📶	Wireless
🕒	Time Count
☑	Checking
⚙	Zero Cal.
🔧	Span Cal.
🔋	Available battery
🔌	Discharge warning



● Sensor Replacement



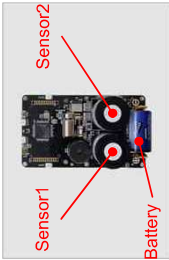
Deactivate the detector



After removing the 6 bolts on the rear,
separate the rear case.



Remove the 2 screws on the PCB.



After removing the battery,
replace with a new sensor that matches the gas type.



Reassemble the detector in reverse order.

After reassembling, turn the detector
and stabilize for 60 minutes.

After 60 minutes, perform zero and span calibration.

● Battery Replacement



Deactivate the detector



After removing the 6 bolts on the rear,
separate the rear case.



Replace the battery



Reassemble the detector in reverse order.

After reassembling, turn on the detector
and stabilize for 5 minutes.

After 5 minutes, perform zero and span calibration.

PCB Replacement



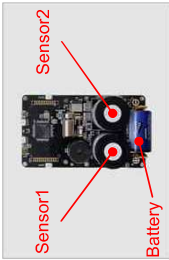
Deactivate the detector



After removing the 6 bolts on the rear, separate the rear case.



Remove the 2 screws on the PCB.



After removing the battery, replace with a new sensor that matches the gas type.



Reassemble the detector in reverse order.

After reassembling, turn the detector and stabilize for 60 minutes.

After 60 minutes, perform zero and span calibration.

LCD Replacement



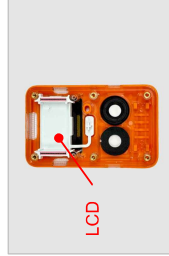
Deactivate the detector



After removing the 6 bolts on the rear, separate the rear case.



Remove the 2 screws on the PCB. And remove the battery



After replacing PCB, replace LCD.



Reassemble the detector in reverse order.

After reassembling, turn on the detector and stabilize for 5 minutes.

After 5 minutes, perform zero and span calibration.

Filter and Case Replacement



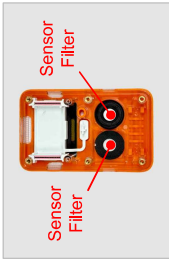
Deactivate the detector



After removing the 6 bolts on the rear, separate the rear case.



Remove the 2 screws on the PCB.



- Filter replacement: Replace the sensor filter on the front case.
- Case replacement : Move the sensor filter on the front case to a new case or attach a new filter, then replace the case.



Reassemble the detector in reverse order.

Belt Clip Replacement



Lift up the detector belt clip to unlock it.



After removing fixing bolt, replace with new belt clip.



Reassemble the detector in reverse order.