# 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
- 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 Type | Diffusion Type |
| Case Material | Rubber type polycarbonate |
| Dimensions | 56(W) x 89(H) x 21(D) mm<br>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) |
| Event Log | Most recent 30 alarms |
| IP | IP 67 |
| Alarm | Visual (LCD and flasing LEDs), Audible(Buzzer), Vibration |
| Display | Liquid Crystal Display (LCD) |
| Key | One button |
| Battery | Replaceable Primaty cell 3.6V Thionyl chloride (Li/SOCI2) battery manufactured in Vitzrocell |
| Battery Life | DUO TRACER-1 to 2: Approximately 3 months<br>DUO TRACER-3 to 9, A to F: Approximately 2 years<br>※ 8 hours daily use, wireless off.<br>※Battery lifetime could vary depending on usage conditions and environment. |
| Environmental Condition | Pollution Degree: "2"<br>Atmospheric Pressure: 80 ~ 120KPa |
| Accessories | Calibration Cap (Available as an option) |
| Attachment Method | Equipped with a clip for attachment to clothing, belts, or helmets. |
| Warranty | 2 years from the date of purchase |

## CERTIFICATION

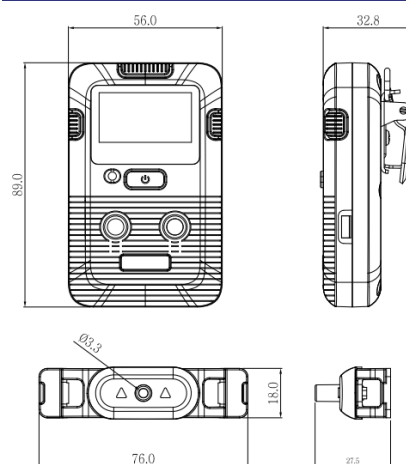| IECEx | IECEx KSCP 24.0025X | DUO TRACER-1 to 2 | Ex ia op is IIC T4 Ga |
|---|---|---|---|
| | | DUO TRACER-3 to 9, A to F | Ex ia IIC T4 Ga |
| ATEX | KSCP 24ATEX0016X | DUO TRACER-1 to 2 | Ex ia op is IIC T4 Ga |
| | | DUO TRACER-3 to 9, A to F | Ex ia IIC T4 Ga |
| CSA/UL | LC24CA22376-1 | DUO TRACER-1 to 2 | Ex ia op is IIC T4 Ga |
| | | DUO TRACER-3 to 9, A to F | Ex ia IIC T4 Ga |
| CNEx | 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 |
| | 24-GA2BO-0612X | DUO TRACER-3 to 9, A to F | Ex ia IIC T4 Ga |

### DIMENSION (Unit:mm)



## GAS TYPES

| 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 |
| $H_2S$ | 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 |

### ACCESSORIES



**IR Link Communication**
Connects to the computer in order to program configuration and download data log

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

(*) x means series number for gas domvination. The number is 1 to 9 or A to F.
(**) These sensors are NDIR sensors, and the rest are electrochemical sensors.