# SGT-P

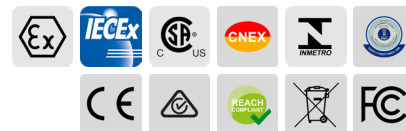## Portable Single Gas Detector (Replaceable Type)

## DESCRIPTION

SGT-P is a single replaceable gas detector designed to detect oxygen deficiency and the presence of toxic gas in the ambient environment. SGT-P is the replaceable type of gas sensor and battery. When activated, SGT-P continuously monitors ambient air for the presence of a specific gas and alerts the user to potentially unsafe exposure with LED, vibrating, and audible alarms in the event that gas concentration exceeds alarm set points.

## KEY FEATURE

- Sensor and battery replacement available
- Power on / off functionality
- Configuration via exclusive IR Link
- Maintenance-free operation for CO and H$_2$S model, —no calibration needed for 2 years

## SPECIFICATION

| Model | SGT-P |
|---|---|
| Sensor Type | Electrochemical |
| Measuring Method | Diffusion Type |
| Enclosure Material | Rubber Enclosure |
| Dimension | 49(W) x 85(H) x 40(D) mm  /  1.93(W) x 3.35(H) x 1.57(D) inch |
| Weight | 93g / 3.28oz (Toxic), 104g / 3.67oz (O2) *Battery, Clip included |
| Operating Temperature | -40°C to +50°C / -40°F to +122°F (for CO, H2S, H2, NH3, and NO2) -35°C to +50°C / -31°F to +122°F (for O2 and SO2) |
| Operating Humidity | 5% to 95% RH (Non-condensing) |
| Operating Life | 24 months, Based on 2 minutes of alarm per day |
| Data Logging | Supports Event Logging |
| IP | IP 67 |
| Alarm | Visual: Red flashing LEDs and LCD display), Vibrating, Audible: 90 dB (buzzer) |
| Display | Liquid Crystal Display (LCD) |
| Battery | Manufacture : Vitzrocell, P/N : SB-AA02 (P), System : Lithium Primary Battery, Nominal Voltage : 3.6V, Nominal capacity : 1.2Ah |
| Components | Calibration Cap, Manual, Calibration and Test Certificate |
| Certification | IECEx | Ex ia IIC T4 Ga |
| | ATEX | II 1 G Ex ia IIC T4 Ga |
| | CSA/UL | Ex ia IIC T4 Ga Class I, Zone 0, AEx ia IIC T4 Ga Class I, Division 1, Groups A, B, C, D, T4 |
| | CNEx & CPA | Ex ia IIC T4 Ga |
| | INMETRO | Ex ia IIC T4 Ga |
| | PESO | Ex ia IIC T4 Ga |
| | etc. | RoHs2, RCM, REACH, WEEE, FCC |

## ACCESSORIES

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

**Sampling Pump (SP-Pump101)**

**Extension Probe**
5m / 10m

**SGTP Docking Station**

## SENSOR SPECIFICATION

| Gas | Measuring Range | Low Alarm | High Alarm | Resolution |
|---|---|---|---|---|
| O$_2$ | 0~30%Vol | 19%Vol | 23%Vol | 0.1%Vol |
| CO | 0~500/1,000ppm | 30ppm | 60ppm | 1ppm |
| H$_2$S | 0~100/200ppm | 10ppm | 15ppm | 0.1ppm |
| H$_2$ | 0~1,000ppm | 100ppm | 500ppm | 1ppm |
| SO$_2$ | 0~50ppm | 2ppm | 5ppm | 1ppm |
| NH$_3$ | 0~100ppm | 25ppm | 35ppm | 1ppm |
| NO$_2$ | 0~20ppm | 3ppm | 5ppm | 1ppm |
| Cl$_2$ | 0~20ppm | 0.5ppm | 1ppm | 0.1ppm |
| HCN | 0~50ppm | 2ppm | 5ppm | 0.1ppm |
| PH$_3$ | 0~5ppm | 0.5ppm | 1ppm | 0.1ppm |
| ClO$_2$ | 0~5ppm | 0.1ppm | 0.3ppm | 0.1ppm |
| HCI | 0~20ppm | 1ppm | 2ppm | 0.5ppm |