

SP-SGT

Portable Diffusion-Type Single Gas Detector (Disposable)



DESCRIPTION

SP-SGT is a compact, disposable single gas detector designed for continuous operation over a two-year period. It offers reliable detection for oxygen (O₂) or toxic gases without the need for sensor or battery replacement, providing seamless, long-term protection in hazardous environments.

KEY FEATURES

- Disposable type (No need for sensor or battery replacement)
- Operates continuously for 2 years
- Excellent water / dust proof structure
- Automatic checking of the sensor trouble
- High-performance audible and vibrating alarms
- Automatic logging of up to 30 events
- Easy configuration and data management via IR link
- Easy calibration through the Docking Station
- Maintenance-free operation for CO and H₂S model, —no calibration needed for 2 years



SPECIFICATION

Model	SP-SGT
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 (O ₂) *Battery, Clip included
Operating Temperature	-40°C to +50°C / -40°F to +122°F (for CO, H ₂ S, H ₂ , NH ₃ , and NO ₂) -35°C to +50°C / -31°F to +122°F (for O ₂ and SO ₂)
Operating Humidity	5% to 95% RH (Non-condensing)
Operating Life	24 months, Based on 2 minutes of alarm per day
Data Logging	Most recent 30 alarms
IP	IP 67
Alarm	Visual (Red flashing LEDs and LCD display), Vibrating, Audible (90 dB alarm at 10cm and 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
	INMETRO 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



SGT/SGTP Docking Station II

SENSOR SPECIFICATION

Gas	Measuring Range	Low Alarm	High Alarm	Resolution
O ₂	0~30%Vol	19%Vol	23%Vol	0.1%Vol
CO	0~500ppm	30ppm	60ppm	1ppm
CO	0~1,000ppm	30ppm	60ppm	1ppm
H ₂ S	0~100ppm	10ppm	15ppm	0.1ppm
H ₂ S	0~200ppm	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