watchgas detection

SST4 PUMP

Four-gas pumped gas detector - with optional diffusion mode

APPLICATIONS

- Confined Spaces
- Storage Tanks
- Sewage Networks
- Mining
- Utility Networks
- Food Production
- Industrial Sites
- Ship Holds and Engine Rooms

FEATURES AND BENEFITS

DISPLAY

A large and clear display allows for quick decision-making and sample recording. The screen displays up to four gases simultaneously and is designed with our user in mind. Whether in a dark, confined space or outside in bright sunlight. The backlight allows clear visibility in dark, confined spaces or when working at night. It is activated when gas is present or with a simple push of the button.

NFC

Near-field communication is built in as standard, allowing for a wide range of solutions depending on your needs. Pair with the WatchGas SST Application to manage your fleet, bump, calibrate, assign, or download event logs and data logs, or even use them as part of your confined space process. Pair with any mobile phone or our partners, i.Safe, for intrinsically safe tablets and phones.

WIRELESS CHARGING

In dirty and harsh environments that gas detectors are often used in many charging connectors become damaged. SST4 Pump has been designed with induction charging allowing for simple and quick charging with no risk of cables and ports becoming damaged and failing.
A complete charge cycle takes 5-6 hours. Different charging accessories are available within the portfolio.

RUNTIME

The runtime is very important for confined space monitors, as traditional devices with a pumped unit draw a lot of power and struggle to last an entire shift. Based on an 8-hour working day, we designed the SST4 Pump device to run for six working days with the low power catalytic sensor and 12 working days with the infrared sensor. This will allow for more uptime doing permits for confined space entry rather than downtime charging devices.

ERGONOMIC DESIGN

The ergonomic design of a handheld device is essential as these devices can be used over a long shift. The slim design and considered weight distribution ensure that the device will sit in the hand and not cause fatigue during a shift. The SST4 Pump can also be worn as a diffusion device. The hose has a bottom connection. The industrial-strength alligator clip makes wearing easy.

ACCESSORIES

Confined spaces take many different forms, and because of this, we have designed several probes, ball floats, and tubing solutions. Conventional solutions must often be designed with the user and application in mind. Our solutions range from sampling ceilings to taking samples in liquid tanks. Also, look at our other accessories for charging, better-wearing solutions, or filtering.

SST4 PUMP

Four-gas pumped gas detector

Confined spaces often pose a challenge not just in the harsh environment with high temperatures, chemicals, and dirt, but also in the time it can take to get a permit to work. These can take many hours, with slow sampling and issues occurring due to harsh environments, like blocked pumps or sticky gases requiring longer sampling times. The SST4 Pump has been designed to speed up the permit-to-work process by utilizing the NFC feature and allowing the flow of data and information to ensure faster signing off the confined space. It has also been designed with harsh environments in mind, with its 95dB audible alarm at 30 cm, rugged housing, up to 33-meter sampling, and accessories that make the job easier and faster.

ACCESSORIES

Ballfloat
P/N:7182112

Universal cradle charger for SST Range
P/N: SST-IND-S

Last-o-More tubing
available per meter
5x8mm P/N: 411-0018-039
3x5mm -P/N:411-0018-038

SST Range probe
P/N: SST-PROBE
Advised to use with
Last-o-More per meter
(not included)

WatchGas SST Range 5-Way Stackable Charging Cradle
P/N: SST-STACK-CHR
(Extra's are needed)

SST4 Lanyard bar
(sold seperately)
P/N: SST4-POUL-10

WatchGas SST RTR Web Reporting Software
P/N: SST-SOFTWARE

SST Dock
P/N: SST-DOCK

SENSOR SPECIFICATIONS

SENSOR TYPE	RANGE	RESOLU-TIONS	LOW ALARM	HIGH ALARM	TWA	STEL
O_2 Oxygen	0-25% Vol	0.1% vol	19.50%	23.50%	N/A	N/A
LEL Low Power Catalytic	0-100% LEL	1 %LEL	10%	20%	N/A	N/A
LEL CAT LEL Catalytic Bead	0-100% LEL	1 %LEL	10%	20%	N/A	N/A
LEL Non-Dispersive Infrared Sensor	0-100% LEL	1 %LEL	10%	20%	N/A	N/A
CO Carbon monoxide	0-2000 ppm	1 ppm	35 ppm	200 ppm	20 ppm	100 ppm
H_2S Hydrogen sulphide	0-500 ppm	0.1 ppm	10 ppm	15 ppm	10 ppm	15 ppm
SO_2 Sulphur dioxide	0-100 ppm	0.1 ppm	5 ppm	10 ppm	2 ppm	5 ppm

Factory alarm set points can be set to customer requirements using SST Dock and WatchGas SST Application.

SST4 PUMP SPECIFICATIONS

Size	150 x 62.2 x 32.4 mm (5.9x 2.4 x 1.3 in.) *Dimensions are stated without alligator clip. Please add 4mm (0.16 in.) in depth for dimensions with alligator clip
Weight	275 g (6.3 oz.)
Operating Temperature	-20 to +60°C (-4 to +140°F)
Humidity	5% - 95% RH (non-condensing)
Typical battery life	**SST4 Pump LPC Low Power Catalytic:** 50hr **SST4 Pump HP LEL:** 18hr **SST4 Pump IR:** 100hr
Induction Charger	5-6 hours
Event logging	100 events
Data logging	6 months
IP	65/68
Communication	NFC
Calibration	6 months as industry standard
Certifications & Approvals	**North America:** Class I Division 1 Group A,B,C,D T4 US: Class I Zone 0 AEx ia IIC T4 Ga Canada: Ex ia IIC T4 Ga **ATEX/IECEx/UKEX** LEL-LPC and LEL-CAT: II 1 G Ex ia IIC T4 Ga; I M1 Ex ia I Ma; -20°C ≤ Tamb ≤ +60°C LEL-IR sensor: II 1 G Ex ia op is IIC T4 Ga; I M1 Ex ia op is I Ma; -20°C ≤ Tamb ≤ +60°C EN 50270:2015+AC:2016, EN 301 489-1 V2.2.3 EN 301 489-3 V2.1.1, RoHS EN63000:2018
Warranty	2-year warranty as standard

FOR MORE (ORDER) INFORMATION

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