



SST4 Pump

FOUR-GAS PUMPED GAS DETECTOR - WITH OPTIONAL DIFFUSION MODE



RTR COMPATIBLE

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, showing up to four gases simultaneously and engineered for optimal user experience. Whether in a dark confined space or outside in bright sunlight, the backlight ensures clear visibility and illuminates automatically in alarm conditions or on demand.



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 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.



Runtime

The runtime is critical 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.



Accessories

Confined spaces take many different forms, and because of this, we have designed several probes, ball floats, and tubing solutions. Conventional solutions often need to be tailored with the user and application in mind. Our solutions range from sampling ceilings to taking samples in liquid tanks, and we also offer accessories for charging, improved wearing solutions, and filtering.



Wireless Charging

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



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 comfortably in the hand without causing fatigue. The SST4 Pump can also be worn as a diffusion device. A bottom hose connection is used to prevent tube kinks, and an industrial-strength alligator clip ensures a solid, secure connection that won't come loose.

Confined spaces often pose a challenge not just because of the harsh environment with high temperatures, chemicals, and dirt, but also in the time it can take to obtain a permit-to-work. These can take many hours, with slow sampling and issues caused by harsh conditions, such as blocked pumps or sticky gases that require 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 30cm, rugged housing, up to 33-meter sampling, and accessories that make the job easier and faster.

SST4 Pump Specifications

Size	150 x 62.2 x 32.4 mm (5.9 x 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	275g (6.3oz)
Operating temperature	-20 ~ +60 °C (-4 ~ +140 °F)
Humidity	5 ~ 95% r.h. (Non-condensing)
Typical battery life	SST4 Pump LEL Low Power Catalytic (LPC) - 50hr SST4 Pump LEL High Power Catalytic (HPC) - 18hr SST4 Pump LEL Non Dispersive Infrared (NDIR) - 100hr
Induction charger	5 to 6 hours
Event logging	Last 100 events
Data logging	6 months
IP	65/68
Communication	NFC
Shelf life	1 year
Certifications and approvals	 ATEX, IECEX, UKEX : LEL-LPC and LEL-CAT, II 1 G Ex ia IIC T4 Ga, I M1 Ex ia I Ma LEL-IR II 1 G Ex ia op is IIC T4 Ga, I M1 Ex ia op is I Ma  North America: (non-IR) Class I Division 1 Group A,B,C,D T4 US: Class I Zone O AEx ia IIC T4 Ga Canada: Ex ia IIC T4 GaMini (IR) Class I Division 1 Group A,B,C,D T4 US: Class I Zone 0 A Ex ia op is IIC T4 Ga Canada: Ex ia op is IIC T4 Ga NO 61010-1-12  EMC Directive 2014/30/EU  (PESO) Ex ia IIC T4 Ga Ex ia op is IIC T4 Ga (with IR sensor)  (Korea) Ex ia IIC T4 Ex ia op is IIC T4 (with IR Sensor)  Ex ia I Ma, Ex ia IIC T4 Ga Ex ia op is I Ma, Ex ia op is IIC T4 Ga (with IR sensor)  (ABS) 24-00T2542343-1-PDA
Warranty	2-year warranty as standard

For more information

www.watchgas.com / www.watchgasusa.com
info@watchgas.com / info@watchgasusa.com

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WatchGas is dedicated to continuously improving its products. Therefore, the specifications and features mentioned in this datasheet are subject to change without prior notice.

Sensor Specifications

Sensor type	Gas measuring range	Low alarm	High alarm	STEL	TWA	Resolution
O₂	0 ~ 25.0% Vol	19.5% Vol	23.5% Vol	-	-	0.1% Vol
LEL Low Power Catalytic (LPC)	0 ~ 100% LEL	10% LEL	20% LEL	-	-	1% LEL
LEL High Power Catalytic (HPC)	0 ~ 100% LEL	10% LEL	20% LEL	-	-	1% LEL
LEL Non Dispersive Infrared (NDIR)	0 ~ 100% LEL	10% LEL	20% LEL	-	-	1% LEL
CO	0 ~ 2000ppm	35 ppm	200 ppm	100 ppm	20 ppm	1 ppm
H₂S	0 ~ 500 ppm	10 ppm	15 ppm	15 ppm	10 ppm	0.1 ppm
SO₂	0 ~ 100 ppm	5 ppm	10 ppm	5 ppm	2 ppm	0.1 ppm

*Factory alarm set points can be set to user requirements using SST Dock and WatchGas SST Software.

Accessories

Multiple SST4 Pump probes, a confined space kit and other accessories are available, ask your local contact for more info.

	SST4 Confined Space ALU Case For 34L gas, DFR Regulator, Unit, Charger, Ball Float and tubing SST4-PUMP-CSE-CASE
	WatchGas SST Range 5-Way Stackable Charging Cradle (additional units required) SST-STACK-CHR
	Ball Float 7182112
	Last-o-More Tubing (Available per meter) 5x8mm 411-0018-039 3x5mm 411-0018-038
	Universal Cradle Charger for SST Range SST-IND-S
	WatchGas SST RTR Web Reporting Software SST-SOFTWARE
	SST Dock SST-DOCK
	WatchGas SST4 Pump Accessories Set for sampling & charging SST4-PUMP-ACC
	SST4 Lanyard Bar pack of 10 SST4-POUL-10

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