



SST1
Micro sensor

SST1E
Mini sensor

SST1 & SST1E Maintenance Free

2 & 3 YEAR WITH IOELV



RTR COMPATIBLE

Applications

- Oil and gas upstream
- Oil and gas downstream
- Contractors
- Site maintenance
- Turnarounds and shutdowns
- Boiler rooms
- Steel plants
- Laboratories
- Shipping
- Power generation
- Mining

Features and Benefits



Easy Setup

With NFC built in as standard, the SST1 unlocks a wide range of possibilities tailored to your needs. Simply pair the device with the WatchGas Device Link App to manage your fleet, perform bump tests, calibrate, assign devices, or download event logs. For more details, see the Tap&Go application note highlighting the full benefits of NFC.



IOELV

The SST1 is the only product in its category that delivers seamless access to critical data via NFC Tap & Go. Instant extraction of IOELV values, alarm events, and device status provides safety managers with a complete overview of exposure levels, enabling proactive safety measures and helping to reduce business interruptions.



Alert

As a safety device it is essential that the device clearly notifies users of the presence of gas. The SST1 has a 95dB alarm audible at 30 centimeters which is the industry standard and is required in loud industrial environments. With the largest display in the category and High and Low alarms, SST1 provides best-in class early warnings.



Sensor

Using the latest unique micro technology or traditional mini electrochemical sensors offer stability and reliability over extreme temperatures and conditions. With its smaller form factor as an alternative to traditional 4 Series electrolyte sensors, it allows for a new standard in the single gas market.



Rugged

Designed with the harshest environments in mind the SST1 offers an Ingress Protection rating of IP65/68. The casing is a double shot housing that gives extra robustness while not compromising on quality. The screen protectors located either side of the display are to protect the LCD from scratching and are required due to the smaller sensor profile.



Cost Effective

Designed to be zero maintenance and remove the need for calibration the SST1 allows for 2 or 3 years of full uptime. No sensor or battery replacements means no hidden costs and with a one-year shelf life it is perfect for turnarounds and contractors.

SST1 & SST1E MAINTENANCE FREE

2 & 3 YEAR WITH IOELV



The SST1 single gas detector provides up to two or three years of maintenance-free operation and is available in H₂S, CO, O₂ or SO₂ models. With its simple design, it is perfect for users looking for ultimate protection while being easy to use, durable, and cost-effective. Simply turn on the device and it runs 24/7 for two to three years - no calibration, no battery replacement, no charging, and no stress. The device is easy to use and reduces the need for extensive training. The SST1 can also be connected to the RTR system via the WatchGas Device Link App, Compliance Kiosk, or SST Dock, enabling seamless maintenance tracking, compliance management, and effortless fleet management.

Configurable options:

- Configuration of High and Low alarm set points using SST-Dock or the WatchGas Device Link App
- Real time gas reading, months remaining or real time clock
- User settable bump test reminder
- Compliance check

SST1 & SST1E Maintenance Free Specifications

Size	SST1: 83 x 49 x 20 mm / 3.3 x 1.9 x 0.8 in SST1E: 83 x 49 x 24 mm / 3.3 x 1.9 x 0.9 in			
Weight	SST1: 88 g / 3.1 oz SST1E: 90 g / 3.2 oz			
Operating temperature	-40 ~ +60 °C / -40 ~ +140 °F			
Humidity	5 ~ 95% r.h. (non-condensing)			
Response time T90	SST1	T90 (sec)	SST1E	T90 (sec)
	H ₂ S	< 10	H ₂ S	< 20
	CO	< 10	CO	< 20
	O ₂	< 10	O ₂	< 20
	SO ₂	< 55	SO ₂	< 45
Battery life	2 year: H ₂ S, CO, O ₂ , SO ₂ ; 2 years* 3 year: H ₂ S or CO: up to 3 years* * = dependent on gas alarms			
Event logging	Last 100 events			
IP	65/68			
Communication	NFC			
Shelf life	1 year			
Certifications and approvals	ATEX, IECEX, UKEX : II 1 G Ex ia IIC T4 Ga I M1 Ex ia I Ma North America: Int.Safe: Cl I Dv 1, Gr A,B,C,D T4 Cl I Zn 0, AEx ia IIC T4 Ga UL 61010-1, CAN/CSA-C22.2 NO. 61010-1-12/A1:18, UL 60079-0, UL 60079-11, CSA 60079-0, CSA 60079-11 EMC Directive 2014/30/EU (PESO) Ex ia IIC T4 Ga (Korea) Ex ia IIC T4 (Brazil) Ex ia I Ma Ex ia IIC T4 Ga (ABS Type Approved) 24-00T2542343-1-PDA			
Warranty	One year shelf life, then two or three years from activation date depending on device type (based on 2 min of alarm per day for 2 years or 1 min of alarm per day for 3 years).			

Sensor Specifications

Sensor	Gas measuring range	Low alarm level	High alarm level	Resolution
Micro Sensors				
2-or 3-year detector H₂S	0 - 500 ppm	10 ppm	15 ppm	0.1 ppm
2-or 3-year detector CO	0 - 2000 ppm	35 ppm	200 ppm	1 ppm
2-year detector O₂	0 - 25.0% Vol	19.5% Vol	23.5% Vol	0.1% Vol
2-year detector SO₂	0 - 100 ppm	5 ppm	10 ppm	0.1 ppm
Mini Sensors				
2-or 3-year detector H₂S	0 - 300 ppm	10 ppm	15 ppm	0.1 ppm
2-or 3-year detector CO	0 - 1500 ppm	35 ppm	200 ppm	1 ppm
2-year detector O₂	0 - 25.0% Vol	19.5% Vol	23.5% Vol	0.1% Vol
2-year detector SO₂	0 - 40 ppm	5 ppm	10 ppm	0.1 ppm

All alarm levels can be set using the WatchGas Device Link App or SST Dock

Accessories



SST Dock

Touchscreen - For SST1, SST4 and SST5

SST-DOCK



WatchGas RTR Web Reporting Software

SST-SOFTWARE



SST1/E External Filters

SST1-XF-10 (pack of 10)
SST1-XF-100 (pack of 100)



WatchGas SST1/E leather pouch/case

7189120

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