



SST1 Single Gas

MAINTENANCE FREE 2 & 3 YEAR WITH IOELV

H₂S CO O₂ SO₂



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 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.



Sensor

Using the latest in Solid State Technology our H₂S, CO, O₂ and SO₂ offer stability and reliability over extreme temperatures and conditions. With its smaller form factor and the removal of traditional electrolyte allows for a new standard in the single gas market.



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.



Rugged

Designed with the harshest environments in mind the SST1 offers an Ingress Protection rating of IP67/68. 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.



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.



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.

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The SST1 single gas detector provides up to two or three years of maintenance-free operation and is available in H₂S, SO₂, CO, or O₂ 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, coupled with the SST Dock, allows for the fastest bump testing on the market and makes fleet management extremely simple.

Configurable options:

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

SST1 - 2 & 3 Year Specifications

Size	83 x 49 x 20 mm (3.3 x 1.9 x 0.8 in)
Weight	88g (3.1oz)
Operating temperature	-40 ~ +60 °C (-40 ~ +140 °F)
Humidity	5 ~ 95% r.h. (Non-condensing)
Response time	H ₂ S, CO, O ₂ : < 10 sec.
T90	SO ₂ : < 55 sec.
Battery life	H ₂ S, CO, O ₂ , SO ₂ : 2 years H ₂ S or CO: up to 3 years depending on the version
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 CSA C22.2 NO. 60079-0 CAN/CSA C22.2 NO 60079 UL 61010 UL60079-0, UL60079-11 CAN/CSA-C22.2 NO 6101-1-12
	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
Warranty	(ABS) 24-00T2542343-1-PDA
	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 more information

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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	Gas measuring range	Low alarm level	High alarm level	Resolution
2-or 3-year detector H ₂ S	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 O ₂	0 - 25.0% Vol	19.5% Vol	23.5% Vol	0.1% Vol
2-year detector SO ₂	0 - 100 ppm	5 ppm	10 ppm	0.1 ppm

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


Accessories




Gas Cylinder
(Ask for bottle size and concentration)




Fixed Flow Regulator 715
0.5 LPM Stainless Steel
A0299024
0.5 LPM Brass
A0195339



WatchGas SST1 External Filters
Pack of 10
SST1-XF-10
Pack of 100
SST1-XF-100



WatchGas SST Docking Station
Touchscreen - For SST1, SST4 and SST5
SST-DOCK



WatchGas RTR Web Reporting Software
SST-SOFTWARE

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