

SST1 SINGLE GAS

Maintenance free 2 & 3 year – H₂S / SO₂ / CO / O₂



APPLICATIONS

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

FEATURES AND BENEFITS



EASY SETUP

Near Field Communication built in as standard allows for a wide range of solutions depending on your needs. Simply pair with the WatchGas App to manage your fleet, bump, calibrate, assign or download event logs. See Tap & Go application note for more information on the benefits of NFC.



SENSOR

Using the latest in Solid State Technology our H₂S, CO, O₂, & 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.



DISPLAY

With the largest LCD in its category the SST1's display shows months remaining.



RUGGED

Designed with the harshest environments in mind the SST1 offer an Ingress Protection rating of 67-68. 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 is 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 at 30 centimetres which is the industry standard and is required in loud industrial environments. High and Low alarms can be configured by the customer and automatically updated directly on the device or through the SST Dock.



COST EFFECTIVE

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

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The SST1 single gas detectors provides up to three years maintenance-free operation and is available in H₂S, SO₂, CO or O₂ models. With its simple design it is perfect for users that are looking for ultimate protection while being easy to use, durable and cost effective. Simply turn on the device and it runs 24/7 for 2 to 3 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 SPECIFICATIONS

Size	83 × 49 × 20 mm (3.3 × 1.9 × 0.8 in)
Weight	88 g (3.1 oz)
Temperature	-40 to +60°C / -40 to +140°F
Humidity	5 ~ 95 %RH (Non-condensing)
Response time T90	H ₂ S, CO, O ₂ : < 10 seconds SO ₂ : < 55 seconds
Battery life	H ₂ S, CO, O ₂ , SO ₂ : 2 years H ₂ S or CO: 3 years depending on the version
Event logging	Last 100 events
IP	IP67-68
Communication	NFC
Shelf life	1 year
Certifications & Approvals	ATEX, IECEx, UKEX II 1 G Ex ia IIC T4 Ga I M1 Ex ia I Ma 0344 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 safety requirements CAN/CSA-C22.2 NO 61010-1-12 Low Voltage Directive 2014/35/EU EMC Directive 2014/30/EU
Warranty	One year shelf life then two or three years from activation date depending on device type

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 % by vol.	19.5 %	23.5 %	0.1 vol%
2 year detector SO ₂	0 - 100 ppm	5 ppm	10 ppm	0.1 ppm

ACCESSORIES



Gas cylinder

Fixed flow regulator

External filter



SST Dock



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