



SST4 Micro SST4 Mini

FOUR-GAS DETECTOR



RTR COMPATIBLE

Applications

- Oil and gas upstream
- Steel production
- Wastewater
- Ship building
- First responders
- Manufacturing
- Shipping
- Power generation

Features and Benefits



Display

Featuring the largest LCD in its class, the SST4 display presents critical information clearly, enabling users to make fast, informed decisions. Up to four gases can be monitored simultaneously, with readings shown in PPM, %vol, mg/m³, and %LEL. Correction factors can be configured via the WatchGas SST Application, allowing precise one-to-one measurements for the target gas. The backlit display ensures visibility in dark environments and automatically illuminates during an alarm event.



Sensor

Using the latest in Solid State Technology, our H₂S, CO, O₂ and SO₂ offer stability and reliability over extreme temperatures and conditions. Toxic sensors have a smaller form factor, and the removal of liquid electrolyte provides a long-lasting sensor. A choice of three different LEL sensors allows the user to tailor the device to your application and allows longer runtimes compared to conventional technology.



Wireless Charging

In dirty and harsh environments where gas detectors are often used, many charging connectors become damaged. SST4 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 2–3 hours. Different charging accessories are available within the portfolio.



NFC

Near Field Communication is built in as standard and allows for a wide range of solutions depending on your needs. Simply pair SST4 with the WatchGas SST Application to manage your fleet, bump, calibrate, assign, or download event logs and data logs.



Alert

As a safety device it is essential that the device clearly notifies users of the presence of gas. The SST4 has a 95dB alarm audible at 30 cm which is the industry standard and is required in loud industrial environments. High, Low, TWA and STEL alarms can be configured by the user and updated directly on the device through the SST Dock or WatchGas SST Application.



Rugged

Designed with the harshest environments in mind, the SST4 offers an IP rating of 65/68. The casing is a double-shot housing that gives extra robustness while not compromising on quality. The screen protectors located on either side of the display protect the LCD from scratching.

SST4 Micro and SST4 Mini

FOUR-GAS DETECTOR



As many industries transition from single-gas to a multi-gas approach, user adoption becomes increasingly important. The SST4 range is engineered with simplicity, compactness, and the user in mind. Its rugged yet portable design ensures reliability across a variety of environments, from the high temperatures of the steel industry and HAZMAT operations to the extreme conditions of oil and gas fields. With extensive user options, the SST4 can be customized for diverse applications. Device setup is straightforward using the WatchGas SST Application, which also manages calibration and bump test records. Compliance Check makes it easier than ever to maintain your fleet, ensuring maximum uptime. An induction disk charger for the device is included in the box.

SST4 Micro and Mini Specifications

| | |
|-------------------------------------|---|
| Size | SST4 Micro: 103.9 x 62.4 x 26.1 mm (4.1 x 2.4 x 1.0 in) SST4 Mini: 107.9 x 62.4 x 26.1 mm (4.2 x 2.4 x 1.0 in) <i>*Dimensions are stated without alligator clip. Please add 4mm (0.16 in) in depth for dimensions with alligator clip.</i> |
| Weight | SST4 Micro: 184g (6.5oz) SST4 Mini: 188g (6.6oz) |
| Operating temperature | -40 ~ +60 °C (-40 ~ +140 °F) |
| Humidity | 5 ~ 95% r.h. (Non-condensing) |
| Typical battery life | SST4 Micro LEL Low Power Catalytic (LPC) - 48hr SST4 Mini LEL High Power Catalytic (HPC) - 13hr SST4 Mini LEL Non Dispersive Infrared (NDIR) - 200hr |
| Induction charger | 2 to 3 hours |
| Event logging | Last 100 events |
| Data logging | 6 months |
| IP | 65/68 |
| Communication | NFC |
| 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 O 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

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WatchGas SST4 Micro & SST4 Mini DS EN V1.5L1E © 2025 WatchGas B.V.


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 - 2000 ppm | 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




External Filter
SST-MICRO-EXTF-10
SST-MINI-EXTF-10




**Universal Cradle
Charger for SST Range**
SST-IND-S




**SST4 Micro/Mini
Aluminium Kit**
460039




**WatchGas SST Range 5-Way
Stackable Charging Cradle**
(additional units required)
SST-STACK-CHR




SST4 Lanyard Bar
pack of 10
SST4-POUL-10



SST Dock
SST-DOCK



**WatchGas SST RTR Web
Reporting Software**
SST-SOFTWARE



**Aspirator Bulb/Pump
for Diffusion Models**
Advised for use with Last-o-More tubing
7SAC0504

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