

# SST1 SINGLE GAS

Serviceable

H<sub>2</sub>S

CO

O<sub>2</sub>

SO<sub>2</sub>

CH<sub>4</sub>S

PH<sub>3</sub>

NH<sub>3</sub>

H<sub>2</sub>



## 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 Polymer Sensor Technology our different target gases, offer stability and reliability over extreme temperatures and conditions. With its smaller form factor and the removal of traditional Electrolyte is setting a new standard in the single gas market.



### DISPLAY

With the largest LCD in its category the SST1's display shows the Real Time Gas Reading and TWA and STEL alarms. This allows for the user to make quicker decisions in a gas alarm environment. Bumper screens either side of the LCD provide anti scratch protection ensuring the clearest of readings.



### 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.



### SERVICEABLE

The SST1 real time monitor is a cost efficient solution for users with STEL, TWA and real time requirements. SST1 real time allows users to replace battery and sensors to maximize the lifetime of the unit. Press and hold the button for 10 sec to reset TWA/STEL for worker shift change.

# SST1 SINGLE GAS

Serviceable



The SST1 Serviceable offers one of the most cost-effective solutions on the market. With its replaceable battery and solid polymer sensor technology the SST1 offers a compact and modular design, while not compromising on its ruggedness. The SST1 Serviceable can be configured to your needs with one simple tap of the NFC and paired with the WatchGas Application. Monitoring for Low, High, STEL and TWA the SST1 will indicate any immediate risks but also the long-term exposure to toxic gases.

## CONFIGURABLE OPTIONS

- Configuration of high and low alarm set points using SST-Dock or the WatchGas App
- Real Time Gas reading, TWA and STEL alarms
- User settable bump test reminder and cal reminder
- Compliance check

## SST1 SERVICEABLE SPECIFICATIONS

|                                       |   |
|---------------------------------------|---|
| <b>Size</b>                           | 83 × 49 × 20 mm (3.3 × 1.9 × 0.8 in)  |
| <b>Weight</b>                         | 88 g (3.1 oz)   |
| <b>Temperature</b>                    | <b>CO, H<sub>2</sub>S, O<sub>2</sub> SO<sub>2</sub>:</b> -40°C to +60°C (-40°F to +140°F) /<br><b>Others:</b> -20°C to +50°C (-4°F to +122°F)   |
| <b>Humidity</b>                       | 5 ~ 95 %RH (Non-condensing)   |
| <b>Response time T90</b>              | <b>H<sub>2</sub>S, CO, O<sub>2</sub>, PH<sub>3</sub> H<sub>2</sub>:</b> < 10 sec<br><b>CH<sub>4</sub>S:</b> <40 sec<br><b>SO<sub>2</sub>:</b> <55 sec<br><b>NH<sub>3</sub>:</b> <130 sec<br>Other sensors may vary  |
| <b>Battery life</b>                   | <b>O<sub>2</sub>:</b> 2 years<br><b>H<sub>2</sub>S, CO, SO<sub>2</sub>, NH<sub>3</sub>, H<sub>2</sub>, PH<sub>3</sub>, CH<sub>4</sub>S:</b> up to 3 years, dependent on gas alarms  |
| <b>Event logging</b>                  | Last 100 events   |
| <b>IP</b>                             | IP67-68   |
| <b>Communication</b>                  | NFC   |
| <b>Shelf life</b>                     | 1 year  |
| <b>Certifications &amp; Approvals</b> | <b>ATEX, IECEx, UKEX</b><br><b>II 1 G Ex ia IIC T4 Ga</b><br><b>I M1 Ex ia I Ma 0344</b><br>Int.Safe: Cl I Dv 1, Gr A,B,C,D T4<br>CSA C22.2 NO. 60079-0<br>CAN/CSA C22.2 NO 60079<br>UL 61010 UL60079-0, UL60079-11<br>safety requirements<br>CAN/CSA-C22.2 NO 61010-1-12<br>Low Voltage Directive 2014/35/EU<br>EMC Directive 2014/30/EU |
| <b>Warranty</b>                       | <b>Instrument:</b> 3 years<br><b>Battery:</b> 2 years based on 1 min of alarm per day<br><b>Sensors:</b><br><b>NH<sub>3</sub>, CH<sub>4</sub>S, PH<sub>3</sub>:</b> 1 year<br><b>H<sub>2</sub>S, CO, O<sub>2</sub>, SO<sub>2</sub>, H<sub>2</sub>:</b> 2 years  |

**NOTE:** Battery lifetime is based on low power mode, depending on usage and functions they may be reduced.

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## SENSOR SPECIFICATIONS

| Sensor            | Gas measuring range | Low alarm level | High alarm level | STEL    | TWA     | Resolution |
|-------------------|---------------------|-----------------|------------------|---------|---------|------------|
| H <sub>2</sub> S  | 0 - 500 ppm         | 10 ppm          | 15 ppm           | 15 ppm  | 10 ppm  | 0.1 ppm    |
| CO                | 0 - 2000 ppm        | 35 ppm          | 200 ppm          | 100 ppm | 20 ppm  | 1 ppm      |
| O <sub>2</sub>    | 0 - 25.0 % by vol.  | 19.5 %          | 23.5 %           | —       | —       | 0.1 vol%   |
| SO <sub>2</sub>   | 0 - 100 ppm         | 5 ppm           | 10 ppm           | 5 ppm   | 2 ppm   | 0.1 ppm    |
| NH <sub>3</sub>   | 0 - 100 ppm         | 25 ppm          | 50 ppm           | 35 ppm  | 25 ppm  | 0.1 ppm    |
| H <sub>2</sub>    | 0 - 1000 ppm        | 100 ppm         | 400 ppm          | —       | —       | 1 ppm      |
| CH <sub>4</sub> S | 0 - 100 ppm         | 2 ppm           | 5 ppm            | 1 ppm   | 0.5 ppm | 0.1 ppm    |
| PH <sub>3</sub>   | 0 - 20 ppm          | 3 ppm           | 10 ppm           | 4 ppm   | 2 ppm   | 0.01 ppm   |

\*All alarm levels can be set using the WatchGas App

## ACCESSORIES



Gas cylinder



Fixed flow regulator



External filter



SST Dock

## FOR MORE INFORMATION

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