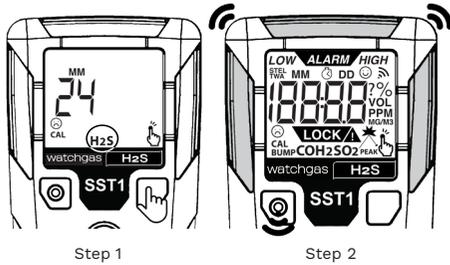


SELF TEST



Prior to daily use, the user must perform a self-test to ensure the device is safe for operation.

STEP 1: When a self-test is required the gas icon will flash at the bottom of the screen.

STEP 2: Press and hold the button for more than 3 sec. First the unit will give a single beep indicating NFC is on. Keep the button pressed until you hear a double beep then release. The above screen (step 2) will display and the unit will perform the following operations: (1) The right and left side LEDs light up after emitting audible beep and vibration. (2) All LCD display icons appear. (3) It will diagnose the sensor. Self Test is then completed. The period of self-test can be changed in the WatchGas App.

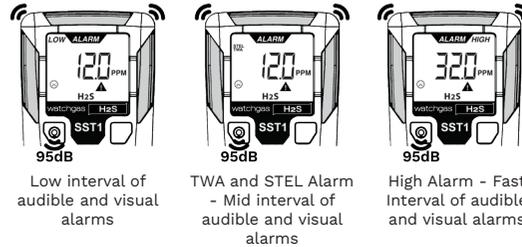
BUTTON FUNCTION

Short press – to step through the menu
1 sec press single beep – release NFC activated and NFC icon on
3 sec press double beep – release and self test activated

Serviceable model in real time mode only:

Press more than 5 sec to zero calibrate.
Press more than 10 sec to reset STEL/TWA alarm.

ALARM TYPES



Low interval of audible and visual alarms

TWA and STEL Alarm - Mid interval of audible and visual alarms

High Alarm - Fast Interval of audible and visual alarms

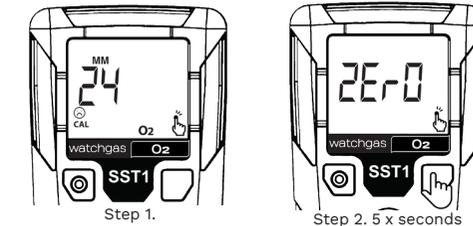
ALARM SET POINTS

Default factory alarm set points

Gas	Low	High	STEL	TWA
H ₂ S	10 ppm	15 ppm	15 ppm	10 ppm
CO	35 ppm	200 ppm	100 ppm	20 ppm
SO ₂	5 ppm	10 ppm	5 ppm	2 ppm
O ₂	19.5% Vol	23.5% Vol	N/A	N/A
CH ₄ S	2 ppm	5 ppm	1 ppm	0.5 ppm
H ₂	100 ppm	100 ppm	N/A	N/A
NH ₃	25 ppm	50 ppm	35 ppm	25 ppm
PH ₃	1 ppm	2 ppm	1 ppm	0.3 ppm

These set points can be changed using the WatchGas App. To display the detector alarm set points, press the button on the front of the detector.

CALIBRATION FOR O₂ DETECTOR



The SST1 O₂ detector is set up to prompt for a calibration every day. When the calibration icon and the button prompt icon are displayed (Step 1), it is an indication to perform an O₂ sensor calibration.

SPECIFICATIONS

SIZE	83 × 49 × 20 mm (3.3 × 1.9 × 0.8 in)
WEIGHT	88 g (3.1 oz)
OPERATING TEMPERATURE	CO, H ₂ S, O ₂ & SO ₂ : -40°C to +60°C (-40°F to +140°F) Others: -20°C to +50°C (-4°F to +122°F)
HUMIDITY	5 ~ 95 %RH (Non-condensing)
INGRESS PROTECTION	IP67 / IP68
AUDIO ALARM	Buzzer (~ 95 dB @30 cm)
VISUAL ALARM	LED
VIBRATING ALARM	Vibrator (Operate more than -8°C) 3.6Vdc, 1.65Ah, Lithium battery (primary battery)
BATTERY LIFE	24/36 months of operation (O ₂ /SO ₂ : 24 months) 1 minute of alarm per day
EVENT LOG STORAGE	Last 100 events
SHELF LIFE	

5. LIMITED WARRANTY

Where a product within the warranty period has a defect or a quality issue, WatchGas provides the buyer with a repair or a replacement free of charge either direct from WatchGas or through an authorized Partner / Service Center. This warranty is only applicable to the original purchaser of the product. Also, this warranty is valid only if the detector is activated by the date on the package.

This warranty does not include:

- fuses, disposable batteries, or routine replacement of parts due to the normal wear and tear of the product arising from use.
- any product which, in WatchGas's opinion, has been misused, altered, neglected or damaged by accident or abnormal conditions of operation, handling, or use.
- any damage or defects attributable to repair of the product by any person other than an authorized dealer, or the installation of unapproved parts on the product.

The obligations specified this warranty are conditional on:

- proper storage, installation, calibration, use, maintenance and compliance with the product manual instructions and any other applicable recommendations of WatchGas;
- the purchaser promptly notifying WatchGas of any defect. No products shall be returned to WatchGas until receipt by the purchaser of shipping instructions from WatchGas; and the right of WatchGas to require that the purchaser provide proof of purchase such as the original invoice, bill of sale or packing slip to establish that the product is within the warranty period.

In no event shall WatchGas liability hereunder exceed the purchase price actually paid by the buyer for the product.

At this time, press the button for more than 5 seconds and the O₂ calibration starts (Step 2). If the button is released during the calibration, the calibration will be aborted and the calibration request icon is once again displayed.

4. PRODUCT INFORMATION

PRODUCT CODE

PART NUMBER	DESCRIPTION	SENSOR RANGE	SPAN GAS
SST1-H-24	H ₂ S 2 Year Fixed Life	500 ppm	25 ppm
SST1-M-24	CO 2 Year Fixed Life	2000 ppm	100 ppm
SST1-O-24	O ₂ 2 Year Fixed Life	25% Vol	18 vol%
SST1-S-24	SO ₂ 2 Year Fixed Life	100 ppm	5 ppm
SST1-H-36	H ₂ S 3 Year Fixed Life	500 ppm	25 ppm
SST1-M-36	CO 3 Year Fixed Life	2000 ppm	100 ppm

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The buyer agrees that this warranty is the buyer's sole and exclusive remedy and is in lieu of all other warranties, expressed or implied, including but not limited to any implied warranty or merchantability or fitness for a particular purpose. WatchGas shall not be liable for any special, indirect, incidental, or consequential damages or losses, including loss of data, whether arising from breach of warranty or based on contract, tort, or reliance on any other theory. Some countries or states do not allow limitation of the term of an applied warranty, or exclusion or limitation of incidental or consequential damages, the limitations and exclusions of this warranty may not apply to every buyer. If any provision of this warranty is held invalid or unenforceable by a court of competent jurisdiction, such holding will not affect the validity or enforceability of any other provision.

Intrinsic Safety:

II 1 G Ex ia IIC T4 Ga
I M1 Ex ia I Ma
IECEx EXV 22.0030X ExVeritas 22ATEX1314X
ExVeritas 22UKEX1315X

EU conformity www.watchgas.com
RoHS compliant

Standard
IEC 60079-11:2013
IEC 60079-0:2020

EN IEC 60079-0:2018
EN 60079-11:2012
EN 50270:2015

Inmetro:
ABNT NBR IEC 60079-11:2013

ABNT NBR IEC 60079-0:2020

North America:

UL 60079-0 7th Edition
UL 60079-11 6th
CSA C22.2 NO. 60079-0:19
CAN/CSA C22.2 NO. 60079-11:14
UL 61010-1 Safety Requirements
CAN/CSA-C22.2 NO. 61010-1-12/A1:18
Cl I, Zn O, AEx ia IIC T4 Ga
Int.Safe: Cl I Dv 1, Gr A,B,C,D T4
-40°C ≤ Tamb ≤ +60°C

FOR MORE INFORMATION

www.watchgas.com
info@watchgas.com

Europe

Klaverbaan 121
2908 KD Capelle aan den IJssel
The Netherlands

Americas

313 N. State Hwy 342
Red Oak, TX 75154

APAC

Woods Square Tower 1,
12 Woodlands Square,
#11-71, Singapore 737715



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