

# **Dock SGT**

**(Gas detector test equipment)**

# Dock SGT Configuration

## Easy to maintain

Changeable alarm levels	Ensures compliance with changing regulations or company procedure
Clip SGD docking station	Keeps monitors correctly configured without service or technician team
'Bump test due' indication	Alerts the user and team members that the monitor is not compliant

## User friendly

Compact and lightweight	Non-intrusive and comfortable to wear
Single button operation	Delivers simplicity for users
	Reduces training time

## Efficient

Wide operating temperature range	Effective in a wide variety of harsh environments
IP66 and IP67	

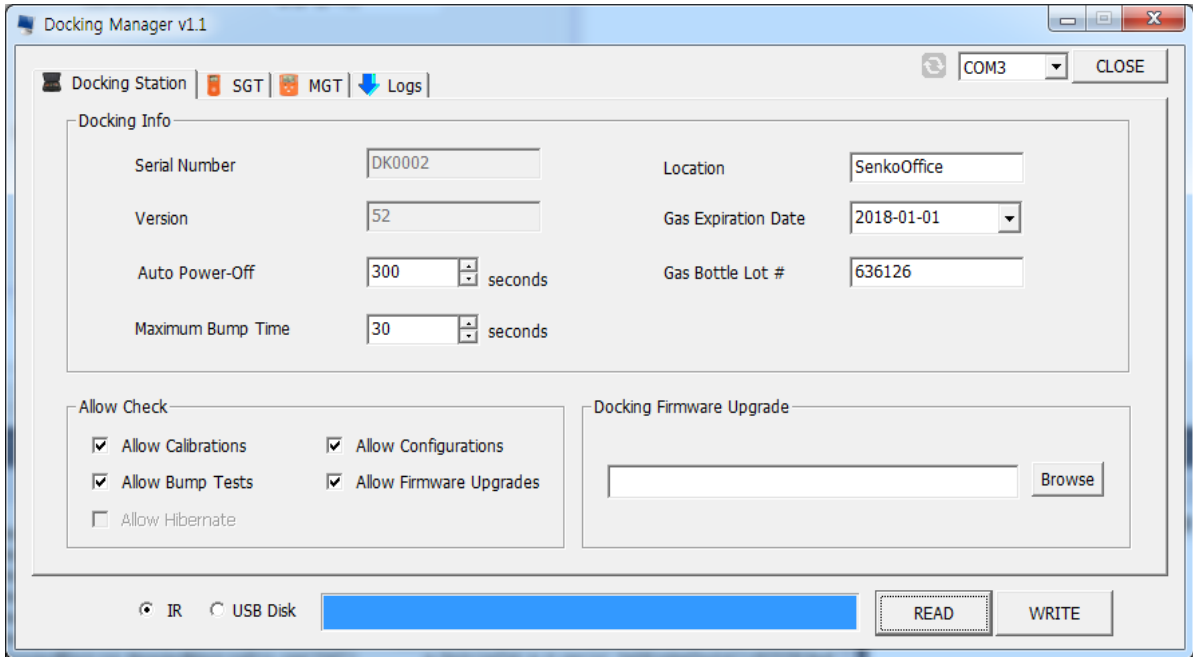
## Dock SGT

Bump testing portable monitors is becoming more and more prevalent in the market. Ensuring sensors are responding to a known concentration of gas remains the best way to verify the monitor has not become impeded. The Clip SGT docking station provides bump testing, event management and calibration from a simple to use multi-unit station and gives fleet or safety managers the ability to update configurations on large fleets. It also maintains the all important event logs that demonstrate users are working within company requirements.

Gas usage controlled	Lowers the cost of bump testing
Manages calibration	Manages calibration and stores records of the event
Flexible	Can monitor a wide array of test parameters and detector settings, providing excellent traceability
All data is stored in a USB stick	Simple to transfer the data
Rechargeable battery or power	Ideal for in-vehicle or multi-site use
Holds up to 4 Clips at once	Faster testing of larger fleets



Users can change settings, upgrade firmware, and download log events through the Docking station IR link.



## SGT

- Docking PC Programs is as the above image.
- To interact with Docking station, ensure to install the Docking station software and have the IR Link cable plugged into the computer. And, place the topside of the IR LINK face down on the detector bay # 1.  
\*\*IR link only operates on the bay #1 and power should be on.

# Dock SGT Configuration

Docking Manager v1.1

COM3 CLOSE

Docking Station SGT MGT Logs

**Docking Info**

Serial Number: DK0002 Location: SenkoOffice

Version: 52 Gas Expiration Date: 2018-01-01

Auto Power-Off: 300 seconds Gas Bottle Lot #: 636126

Maximum Bump Time: 30 seconds

**Allow Check**

Allow Calibrations  Allow Configurations

Allow Bump Tests  Allow Firmware Upgrades

Allow Hibernate

**Docking Firmware Upgrade**

Browse

IR USB Disk READ WRITE

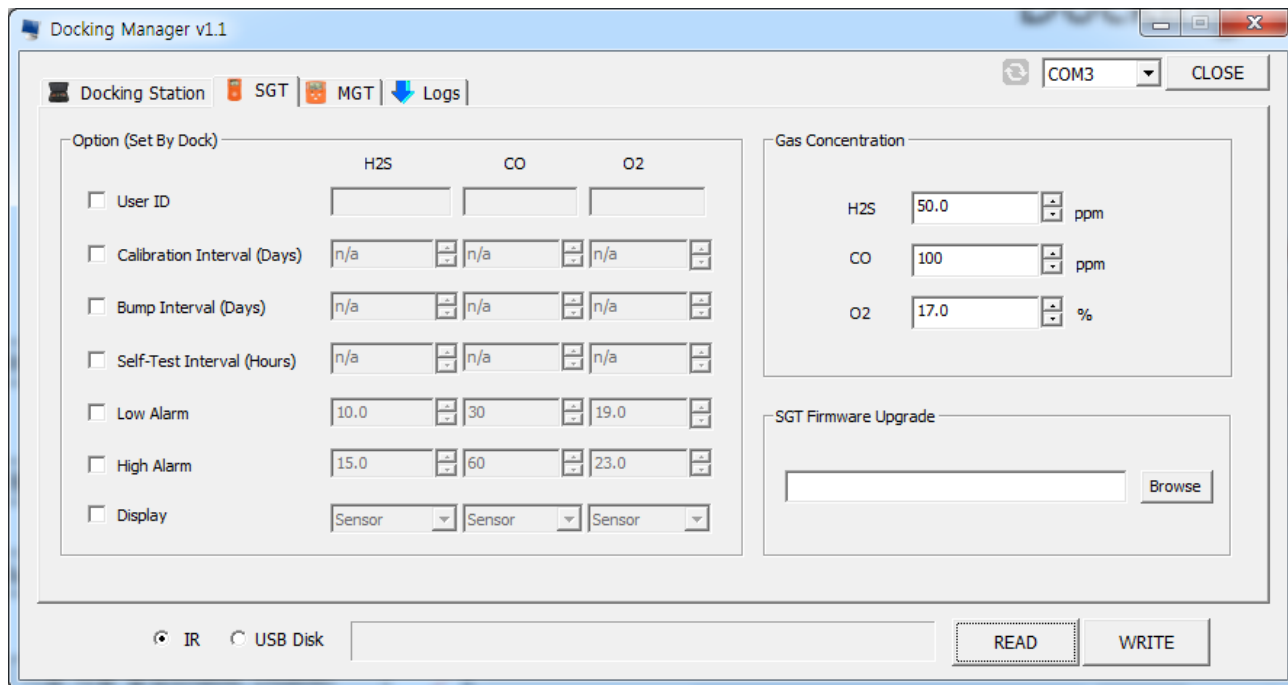
## Docking Info

- Serial S/N: Factory Serial S/N
- Version: Docking station firmware version
- Auto Power-Off (Max 3600 seconds): Auto Power-Off
- Maximum Bump Time: Default: 30 / Min: 20 / Max: 120 seconds
- Location: Configure a location of the docking station installed.
- Gas Expiration Date: Set up the expiration date of a gas cylinder manually.
- Gas Bottle Lot #: Set up a bottle serial number manually.

## Allow Check

- Users can enable/disable the following options by checking each box.
  - Calibration/Bump test/Hibernation/Configuration(Detector)/Firmware Upgrade.

**Read:** Retrieve the stored settings / **Write:** Update the adjusted settings

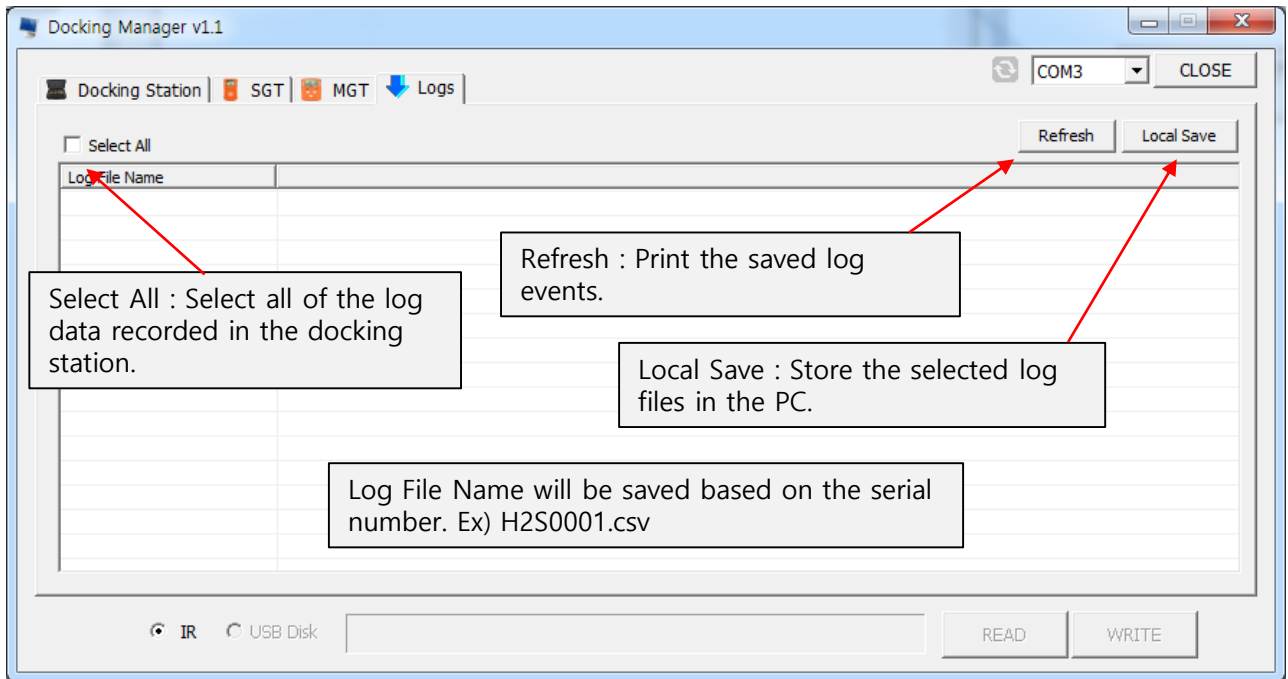


## Option (Set by Dock)

- User ID configuration
- Calibration Interval (0~365 days): Set up an interval of the calibration alert
- Bump Station Interval (0~24 hours): Set up an interval of the self test.
- Low/HIGH Alarms: (Default is as below)
  - O2: 1<sup>ST</sup> 19%-2<sup>nd</sup> 23% / H2S 1<sup>ST</sup> 10ppm- 2<sup>nd</sup> 15ppm / CO 1<sup>ST</sup> 30ppm- 2<sup>nd</sup> 60ppm
- Display: Choose either displaying "Sensor Reading" or "Sensor life remaining."
- Gas Concentration: (Default is as below)
  - H2S: 50ppm
  - CO: 100ppm
  - O2: 17%

**Read:** Retrieve the stored settings / **Write:** Update the adjusted settings

# Log Configuration



Event Log												
Date/Time	Duration	H2S(C)	H2S(S)	CO(C)	CO(S)	O2(C)	O2(S)	LEL(C)	LEL(S)	Serial Number	User Message	
2000.01.01 00:12:22	0:01:05	26	Low Alarm	109.8	High Alarm	17.3	Low Alarm	49.2	High Alarm	MGT002	Senko	

Bump Log															
Date/Time	Beep	H2S(C)	H2S(A)	H2S(S)	CO(C)	CO(A)	CO(S)	O2(C)	O2(A)	O2(S)	LEL(C)	LEL(A)	LEL(S)	Serial Number	User Message
2017.03.27 19:58:52	0	11.5	Low Alarm	SUCCESS	57.2	Low Alarm	SUCCESS	18.2	Low Alarm	SUCCESS	24.4	Low Alarm	SUCCESS	MGT002	Senko
2000.01.01 00:00:38	0	23	Low Alarm	SUCCESS	94	High Alarm	SUCCESS	17	Low Alarm	SUCCESS	0	None	SUCCESS	MGT002	Senko
2017.03.27 20:24:47	0	22.2	Low Alarm	SUCCESS	93.3	High Alarm	SUCCESS	17	Low Alarm	SUCCESS	48.2	High Alarm	SUCCESS	MGT002	Senko
2017.03.27 20:28:54	0	22.5	Low Alarm	SUCCESS	92.5	High Alarm	SUCCESS	16.9	Low Alarm	SUCCESS	48.4	High Alarm	SUCCESS	MGT002	Senko
2000.01.01 00:00:38	0	40.4	High Alarm	SUCCESS	116	High Alarm	SUCCESS	16.9	Low Alarm	SUCCESS	0	None	SUCCESS	MGT002	Senko
2000.01.01 00:15:48	0	26.2	Low Alarm	SUCCESS	111.5	High Alarm	SUCCESS	17.4	Low Alarm	SUCCESS	42.8	High Alarm	SUCCESS	MGT002	Senko
2000.01.01 00:02:44	0	25	Low Alarm	SUCCESS	110.9	High Alarm	SUCCESS	17.3	Low Alarm	SUCCESS	43.6	High Alarm	SUCCESS	MGT002	Senko
2000.01.01 00:46:19	0	22.5	Low Alarm	SUCCESS	104.9	High Alarm	SUCCESS	17.5	Low Alarm	SUCCESS	40.8	High Alarm	SUCCESS	MGT002	Senko
2000.01.01 00:53:42	0	22.2	Low Alarm	SUCCESS	101.7	High Alarm	SUCCESS	17.5	Low Alarm	SUCCESS	39.4	High Alarm	SUCCESS	MGT002	Senko
2000.01.01 00:56:28	0	24.2	Low Alarm	SUCCESS	107.5	High Alarm	SUCCESS	17.4	Low Alarm	SUCCESS	41.8	High Alarm	SUCCESS	MGT002	Senko
2000.01.01 01:21:33	0	23.6	Low Alarm	SUCCESS	106.8	High Alarm	SUCCESS	17.5	Low Alarm	SUCCESS	34.8	High Alarm	SUCCESS	MGT002	Senko
2000.01.01 02:10:59	0	22.1	Low Alarm	SUCCESS	103.1	High Alarm	SUCCESS	17.5	Low Alarm	SUCCESS	39.8	High Alarm	SUCCESS	MGT002	Senko
2000.01.01 02:17:02	0	0	None	FAIL	41.7	Low Alarm	SUCCESS	20.9	None	FAIL	14.2	Low Alarm	SUCCESS	MGT002	Senko

Calibration Log											
Date/Time	Cal Type	H2S(C)	H2S(S)	CO(C)	CO(S)	O2(C)	O2(S)	LEL(C)	LEL(S)	Serial Number	User Message
2017.03.28 10:55:08	Zero Cal	16.8	SUCCESS	15.7	SUCCESS	20.9	SUCCESS	0	SUCCESS	MGT002	Senko
2000.01.01 00:02:32	Zero Cal	0	SUCCESS	0	SUCCESS	20.8	SUCCESS	0	SUCCESS	MGT002	Senko
2000.01.01 00:03:19	Zero Cal	0	SUCCESS	0	SUCCESS	20.8	SUCCESS	0	SUCCESS	MGT002	Senko
2000.01.01 00:12:18	Span Cal	26	SUCCESS	109.2	SUCCESS	17.3	SUCCESS	54.6	SUCCESS	MGT002	Senko

## Docking Station User guide

### Power

- Built-in internal battery for 1000 of bump tests
- Automatic shutdown mode (default: 5 minutes)
- Press Calibration or Bump test button for a second to turn on

### Buttons

#### Bump Test :

1. Press the yellow button for a second to execute Bump test
2. Automatic gas injection
3. Check normal operation of the sensor and alarm

#### Calibration:

1. Press the green button for a second to execute Calibration mode
2. Calibrate the sensor to match with the type of the gas

#### Bump Test + Calibration:

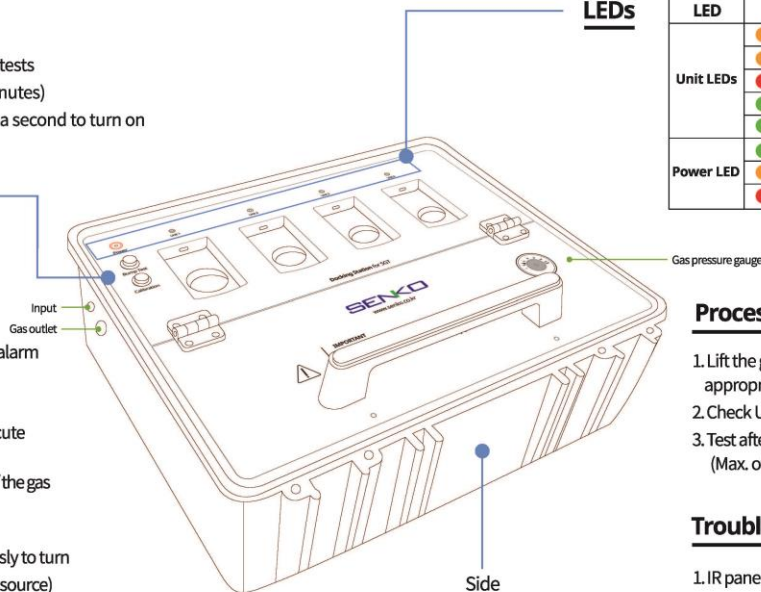
Press both buttons for a second simultaneously to turn off/put to sleep (when connected to a power source)

### Notes

- Available to upgrade or change settings through Docking manager
- Test result can't be saved if USB drive is not connected
- Every test is available to proceed only when the concentration value is below 1st alarm

### LEDs

LED	Description	
Unit LEDs	● Cycling	Charging
	● ON	Testing
	● ON	Test Failed
	● ON	Test Succeeded
	● ON and Blinking	Updating Firmware
Power LED	● ON	Standby mode
	● Blinking (5 sec)	No USB/Exceed memory
	● ON	Low Battery



### Process

1. Lift the gas cover handle and connect with appropriate gas
2. Check USB connection
3. Test after checking the gas pressure gauge (Max. of 58L bottle: 500PSI)

### Troubleshooting

1. IR panel at the top of the detector needs to be cleaned
2. Check the remaining gas on the Gas pressure gauge
3. Try to keep the Docking station away from bright light. It could disturb the IR communication between Docking station and detector
4. Inquire of Senko after doing the above procedure

**SENKO** Check your safety!

CONTACT | [www.senko.co.kr](http://www.senko.co.kr) • [senko@senko.co.kr](mailto:senko@senko.co.kr) • 031)492-0445

Model	Dock SGT
Size	47 x 41 x 22cm (18.50 x 16.14 x 8.66 in.)
Weight (Without gas cylinder)	8.2kg
Operating Temperature	41 to + 104°F ( 5 to + 40°C)
Warranty	Full 2 years
Battery Type	Rechargeable Lithium-Ion
Battery Life	1000 Bump Tests
LEDs	5 red / green / orange LEDs ( 1 for each unit, 1 for power )
Memory	USB 8GB Standard
Log Capacity	Approximately Up to 10 million tests ( 8GB, removable USB memory )
Tests Performed	Bump Test and Calibration
Information Stored	Bump/Cal Logs, Individual Monitor Event Logs, Firmware and Unit Configurations
Gases Available	CO, H <sub>2</sub> S and CO <sub>2</sub>
Unit Compatibility	Works with SGT
Calibration Gas	Compatible with 58L cylinders
Charging Adaptor	12V, 3A