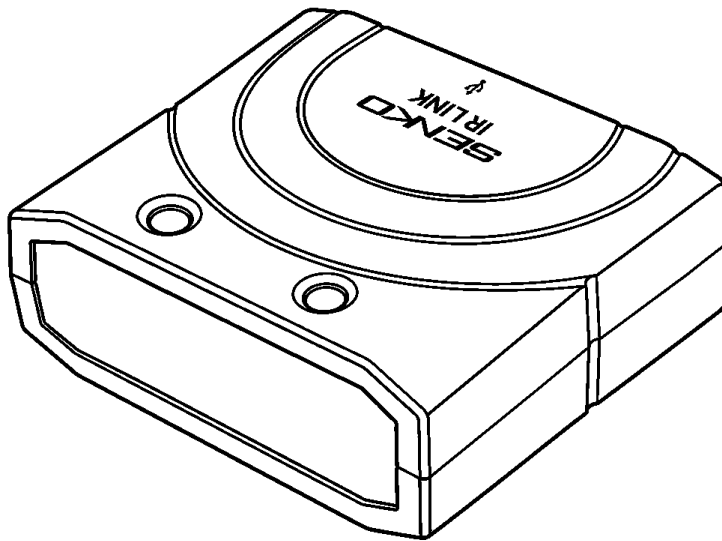


IR Link

IR Communication Device for SGT Series

USER MANUAL



SENKO

en.senko.co.kr

Safety Warning



WARNING

- Any unauthorized attempt to repair or modify the product, or any other cause of damage beyond the intended use including damage by fire, lightening, or other hazard, voids liability of the manufacturer.
- Use the device in a clean environment where there is no hazardous gases.
- Severe vibration or shock to the device may cause the device malfunction.
- Do not leave or use the device at the watery place or at where there is any liquid.
- Before operation, read the manual carefully and follow all the instructions.

Contents

- 1. Overview** 4
 - 1.1. Description 4
 - 1.2. Instructions and Parts 4
- 2. Download and Installing the Driver** 5
 - 2.1. Download 5
 - 2.2. Software Installation 5
- 3. Launch the Software** 7
 - 3.1. Software Interface 7
 - 3.2. Open the IR Link communication port 7
 - 3.3. Connection Errors 8
- 4. Configuration and Functions** 9
 - 4.1. Configuration Screen 9
 - 4.2. Tool 9
 - 4.3. Functions 11
 - 4.4. Optional Functions 12
- 5. Specification** 13
- Limited Warranty** 14

1. Overview

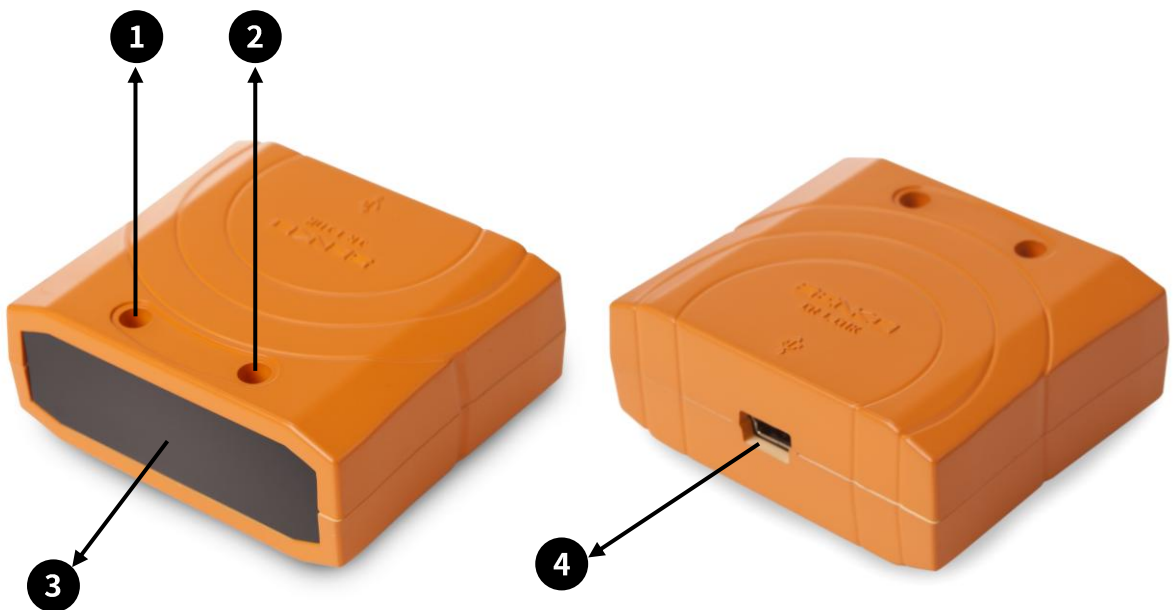
1.1. Description

IR Link는 (주)센코의 휴대용 단일 가스 감지기 SP-SGT 및 SP-SGTP와 적외선 통신으로 연결하여 다양한 설정 및 유지관리 작업을 수행할 수 있는 장치입니다.

(주)센코에서 제공하는 전용 소프트웨어를 통해 교정 가스 농도, 경보 설정값 및 기타 환경 설정을 변경하고, 데이터 로그를 다운로드할 수 있습니다.

이를 통해 SP-SGT 및 SP-SGTP의 설정과 유지관리 작업을 보다 효율적으로 수행할 수 있습니다.

1.2. Instructions and Parts



No.	Description
1	Blue LED blinks while any applied task
2	Red LED on (10 seconds) when connecting to a PC
3	IR connection Screen
4	USB Connection port to PC

2. Download and Installing the Driver

2.1. Download

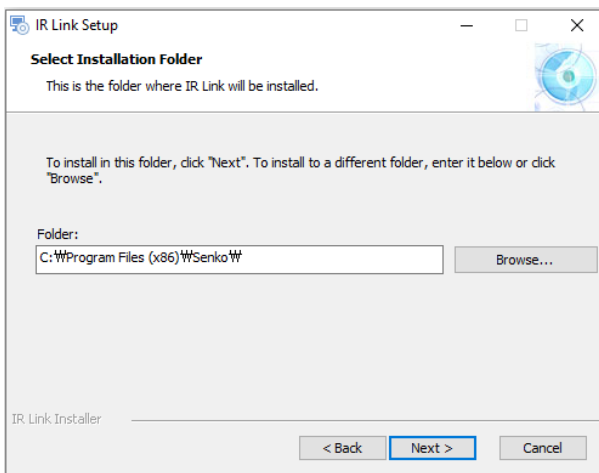
To download the Software, visit the SENKO CO., LTD homepage(en.senko.co.kr) or contact SENKO authorized reseller or service center.

2.2. Software Installation

- ① After downloading the file, navigate to the saved location.
- ② Double click for running an installer.
- ③ Click “Read More” and “Run Away” if you receive a warning message.
- ④ The IR Link Setup window will open. Click “Next”.

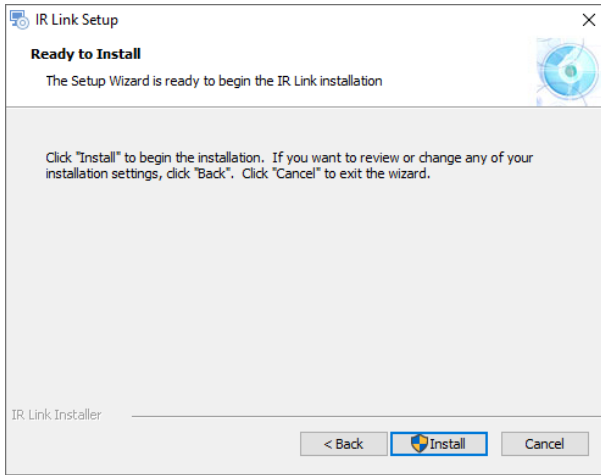


- ⑤ Select Installation Folder.
- ⑥ To install to a different folder, click “Browse” or enter the link.
- ⑦ To install in default folder, click “Next”

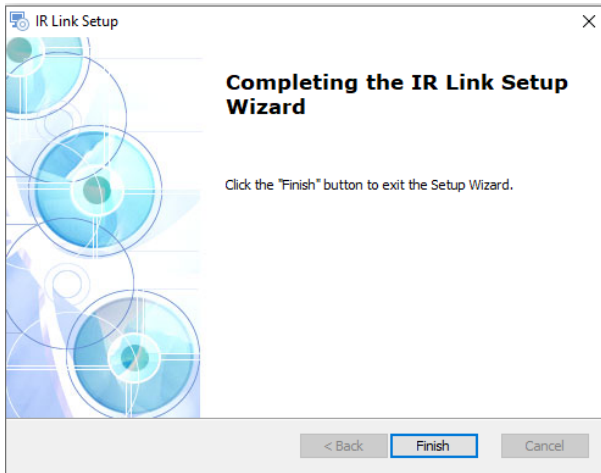


2. Download and Installing the Driver

- ⑧ Once you are ready to install, click “Install” to begin the installation.



- ⑨ Click “Yes” if you receive warning message.
- ⑩ The IR Link Setup Wizard is complete. Click the “Finish” button to exit the Setup Wizard.



- ⑪ You may run the Driver now and connect to your SP-SGT/SGTP now.

3. Launch the Software

Note

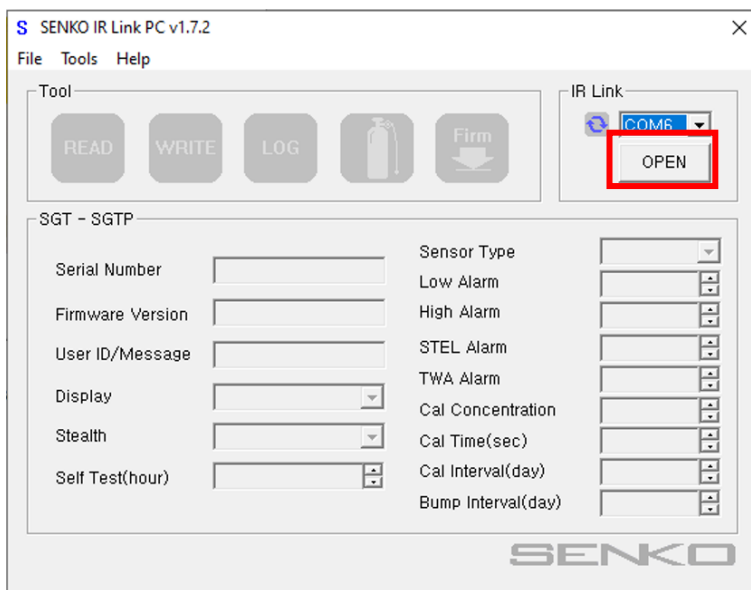
Do not open the software if IR Link is not plugged to PC.

3.1. Software Interface

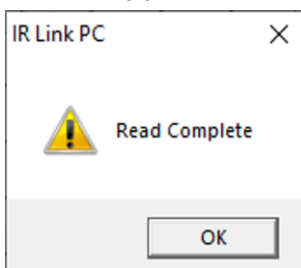
- ① Connect the IR Link to your PC.
- ② Double-click the software icon to launch the program.
- ③ When prompted to allow the software to make changes to your PC, click “Yes.”
- ④ Once the software opens, the fields will be grayed out. Connect the IR Link to the SP-SGT/SGTP to enable the functions.

3.2. Open the IR Link communication port

- ① Click the “Open” button to establish communication between the IR Link and the PC. *The IR Link will automatically scan for an available device.

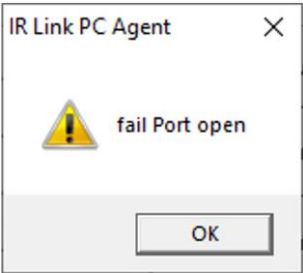


- ② Once communication is successfully established, the “Read Complete” message will appear.



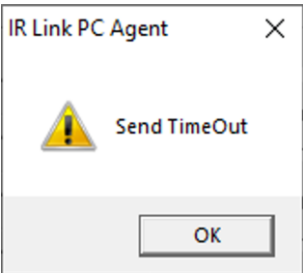
3. Launch the Software

3.3. Connection Errors



Fail Port Open

“Fail Port Open” message pops up if IR Link connection is not found between IR Link and the PC. In this case, check all cables are connected correctly.



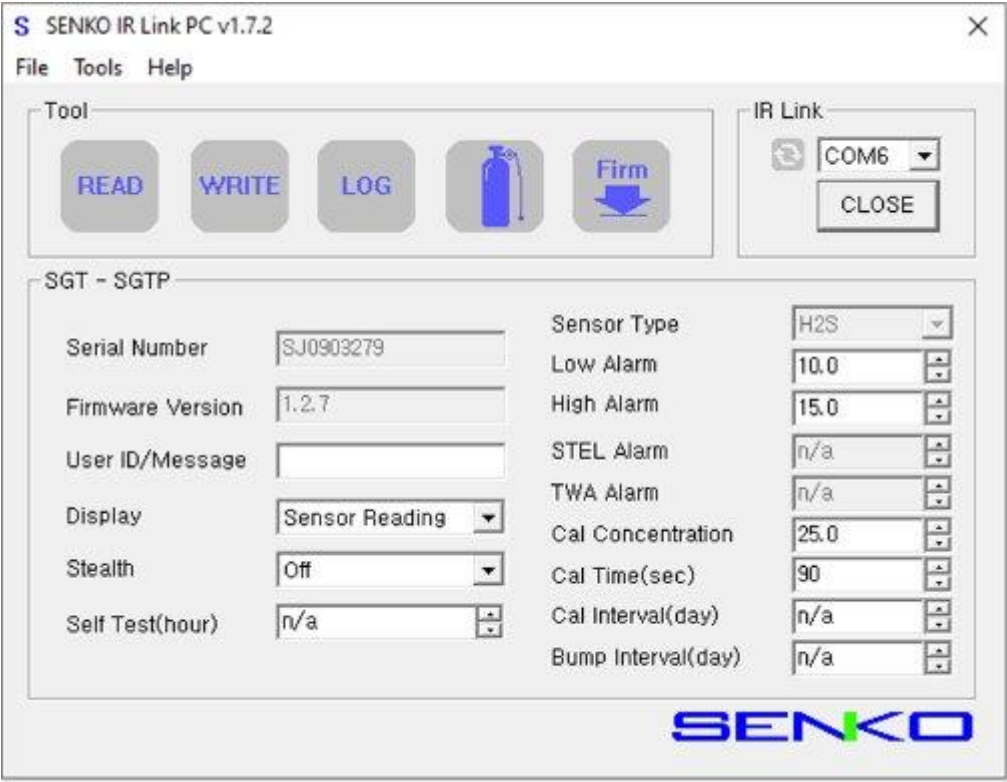
Send Time Out

“Send Time Out” message pops up if IR Link connection is not found between IR Link and the SP-SGT/SGTP. In this case, put the IR Link facing up while SP-SGT/SGTP facing down. Leave around 1cm distance between IR Link and SP-SGT/SGTP Infrared port.

4. Configuration and Functions

4.1. Configuration Screen

When IR Link automatically scans for an available device after clicking “OPEN” button, user will be available receive all information on window as shown below:



4.2. Tool



READ	By pressing the “Read” it displays current settings of the SP-SGT/SGTP and will discard any unsaved changes in the Tab.
WRITE	“Write” allows a user to save newly customized configurations and settings.
LOG	By clicking “LOG”, user can download and display a list of the events (see 4.2.1).
CALIBRATION	To perform “Zero” and/or “Span” Calibration via IR Link (see 4.2.2).
FIRM	Upgrade current firmware to latest one to get more benefit from your device. The latest firmware is available to download in our homepage.

4. Configuration and Functions

4.2.1. LOG

Log

Product Name

SGT

Life Remaining

16 months 5 days

Serial Number

SJ0903279

Total Number of Events

2

Log Type

Alarm Log

Duration of Events

00:01:04

Firmware Version

1.2.7

Zero Cal Time

21/03/10 14:22:29

1st / 2nd Alarm

10.0 / 15.0

Span Cal Time

21/03/10 14:24:02

Event Date	Event Time	Bump Test	Duration(s)	Sensor Reading	Alarm
2020/09/02	17:54:54	Yes	00:00:26	44.5	HIGH Alarm
2020/11/26	12:30:28	No	00:00:38	48.0	HIGH Alarm

The Log file will be automatically downloaded and can be seen in a new window.

4.2.2. CALIBRATION

Calibration

Serial

SJ1217518

Gas Type

H2S

Conc(ppm)

50.0

Cal Time(s) :

90

0%

ZERO

SPAN

User can perform both ZERO and SPAN calibrations via IR Link. When click ZERO, the software asks, “Do you want to start Zero Calibration?”. Click “Yes” to proceed the calibration. The process of the SPAN calibration is also same.

Note

Keep the screens of the IR Link and SP-SGT/SGTP aligned until the download or calibration complete. Erased Logs cannot be recovered.

4. Configuration and Functions

4.3. Functions

SGT - SGTP

Serial Number	SJ0903279	Sensor Type	H2S
Firmware Version	1.2.7	Low Alarm	10.0
User ID/Message		High Alarm	15.0
Display	Sensor Reading	STEL Alarm	n/a
Stealth	Off	TWA Alarm	n/a
Self Test(hour)	n/a	Cal Concentration	25.0
		Cal Time(sec)	90
		Cal Interval(day)	n/a
		Bump Interval(day)	n/a

Serial Number	Displays the serial number of the SP-SGT/SGTP.
Firmware Version	Displays the current firmware version.
User ID/Message	Allows users to enter a user ID or custom message.
Display	Allows users to select either "Sensor Reading" or "Sensor Life Remaining" to be displayed on the screen.
Stealth	Allows users to disable the buzzer, LED, and vibration functions as needed.
Self Test(hour)	Allows users to set the self-test alert interval.
Sensor Type	Displays the current sensor type installed in the device. This setting cannot be modified.
Low/High Alarm	Allows users to adjust the low and high alarm setpoints in accordance with applicable international or local standards.
STEL/TWA Alarm	Allows users to adjust the STEL and TWA alarm setpoints in accordance with applicable international or local standards. This function is available only for the SGT-P model.
Cal Concentration	Allows users to set the calibration gas concentration.
Cal Time(sec)	Allows users to set the time required to complete span calibration.
Cal Interval(day)	Allows users to set the calibration reminder interval from 0 to 365 days.
Bump Interval(day)	Allows users to set the bump test reminder interval from 0 to 365 days.

4. Configuration and Functions

4.4. Optional Functions



File	Load	To load and install the previously saved configuration as (*.cfg) file.
	Save	To save the current configurations as (*.cfg) file.
	Exit	To finish and close the IR Link Wizard.
Tools	Calibration	User can perform both ZERO and SPAN calibrations via IR Link (see 4.2.2).
	Log Read	To download and display a list of the events (see 4.2.1).
	Log Erase	To purge the device memory (erased logs cannot be recovered).
	FW Upgrade	Upgrade current firmware to latest one to get more benefit.
Help	About	Display brief information about Manufacturer's profile.

5. Specification

Model	IR Link (SP-SGT/SGTP)
Size	51 x 44 x 20mm (2 x 1.73 x 0.78 in.)
Weight	24.3g
Temperature	10 - 40°C / 50 - 104°F
Humidity	5 - 95% non-condensing relative humidity
Range	50 - 406mm (2.0 - 16.0 inches)
Power	USB Power (5V)
Reading & Modifications	Alarm Set points to the Senko Single Gas Trap
Reporting	Event logs From the Senko Single Gas Trap Firmware upgrades to the Senko Single Gas Trap
Operating System	Compatible with Microsoft Windows XP, Vista, and Windows 7
Warranty	2 years from activation, 1 year shelf life

Limited Warranty

SENKO warrants this product to be free of defects in workmanship and materials under normal use and service for two years from the date of purchase from the manufacturer or from the product's authorized reseller.

The manufacturer is not liable (under this warranty) if its testing and examination disclose that the alleged defect in the product does not exist or was caused by the purchaser's (or any third party's) misuse, neglect, or improper installation, testing, or calibrations. Any unauthorized attempt to repair or modify the product, or any other cause of damage beyond the range of the intended use, including damage by fire, lightening, water damage or other hazard, voids liability of the manufacturer.

In the event that a product should fail to perform up to manufacturer specifications during the applicable warranty period, please contact the product's authorized reseller or SENKO service center at 82-31-492-0445 to repair/return information.

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