

# IR Link (SGT / SGT-P) User`s Manual



## Table of Contents

Warning .....	3
1. Overview .....	4
1.1 Description .....	4
1.2 Instructions and Parts .....	4
2. Downloading and Installing the Driver.....	5
2.1 Download .....	5
2.2 Software Installation .....	5
3. Launch the Software.....	8
3.1 Software Interface .....	8
3.2 Open IR Link Communication port .....	8
3.3 Connection Errors .....	9
3.3.1 Fail Port Open .....	9
3.3.2 Send Time Out .....	9
4. SGT/SGT-P Configuration Screen and Function .....	9
4.1 Configuration Screen .....	9
4.2 Functions (Tool) .....	10
4.2.1 Log .....	11
4.2.2 Calibration .....	11
4.3 Functions (SGT-SGTP) .....	12
4.4 Optional Functions .....	13
5. Specification .....	14
Limited Warranty .....	15

## **WARNING**

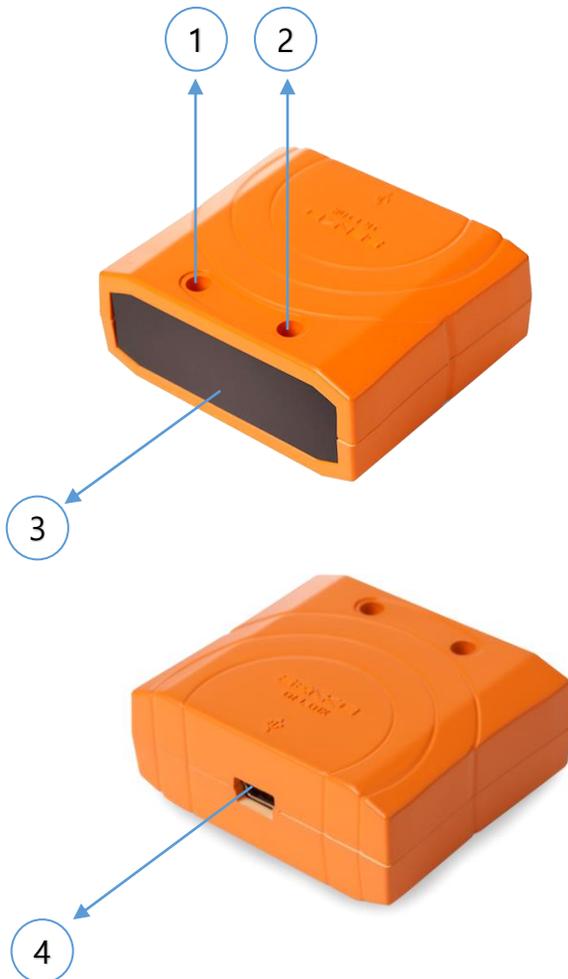
-  Any unauthorized attempt to repair or modify the product, or any other cause of damage beyond the intended use including damage by fire, lightning, or other hazard, voids liability of the manufacturer.
  
-  Use the device in a clean environment where there is no hazardous gases.
  
-  Severe vibration 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.

# 1. Overview

## 1.1 Description

The IR Link is a device for conveniently communicating with the SGT & SGT-P single gas detectors. It uses dedicated software provided by SENKO CO., LTD to communicate with the monitor. IR Link enables users to set up calibration concentration levels, alarm set points, and configuration options as well as download logs.

## 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. Downloading and Installing the Driver

### 2.1 Download

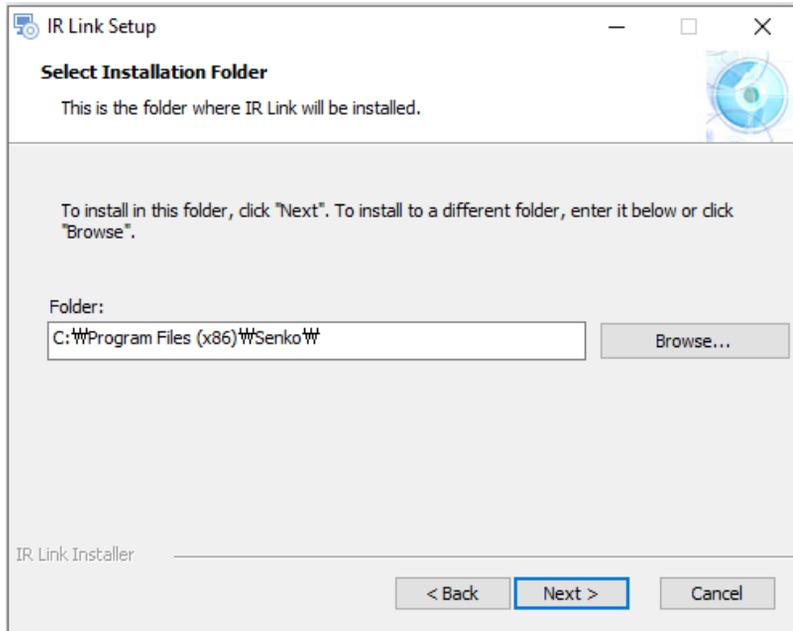
To download the Software, visit the SENKO CO., LTD homepage ([www.senko-detection.com](http://www.senko-detection.com)) or contact SENKO authorized reseller or service center.

### 2.2 Software Installation

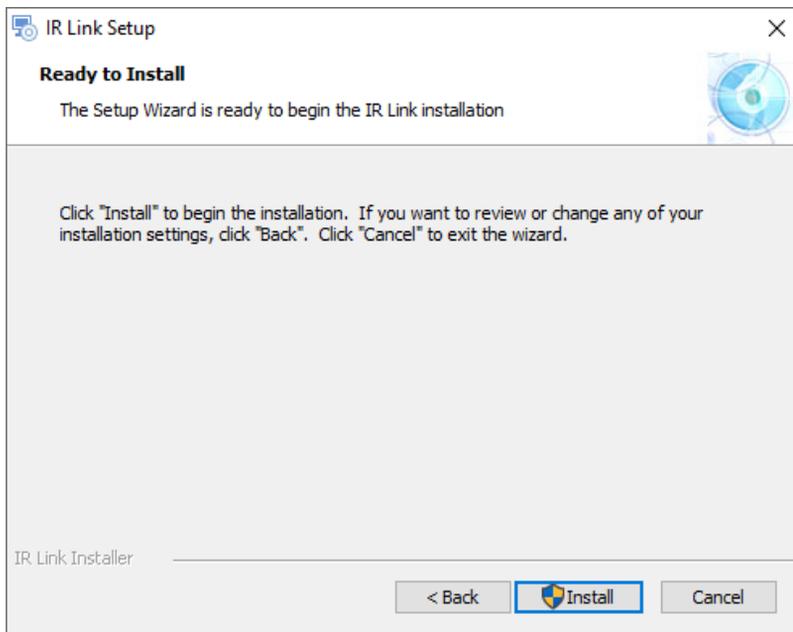
- ✓ After downloading the file, navigate to the saved location.
- ✓ Double click for running an installer.
- ✓ Click “Read More” and “Run Away” if you receive a warning message.
- ✓ The IR Link Setup window will open. Click “Next”.



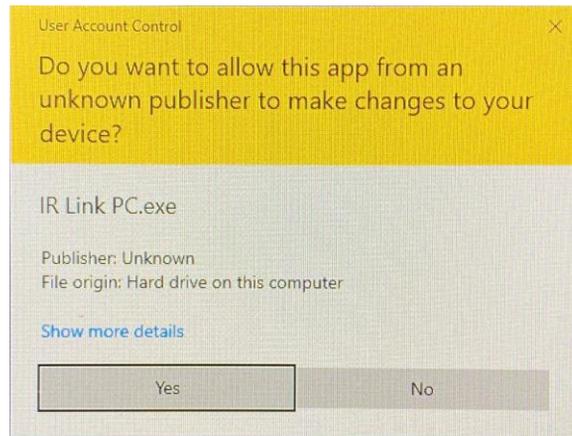
- ✓ Select Installation Folder.
- ✓ To install to a different folder, click “Browse” or enter the link.
- ✓ To install in default folder, click “Next”



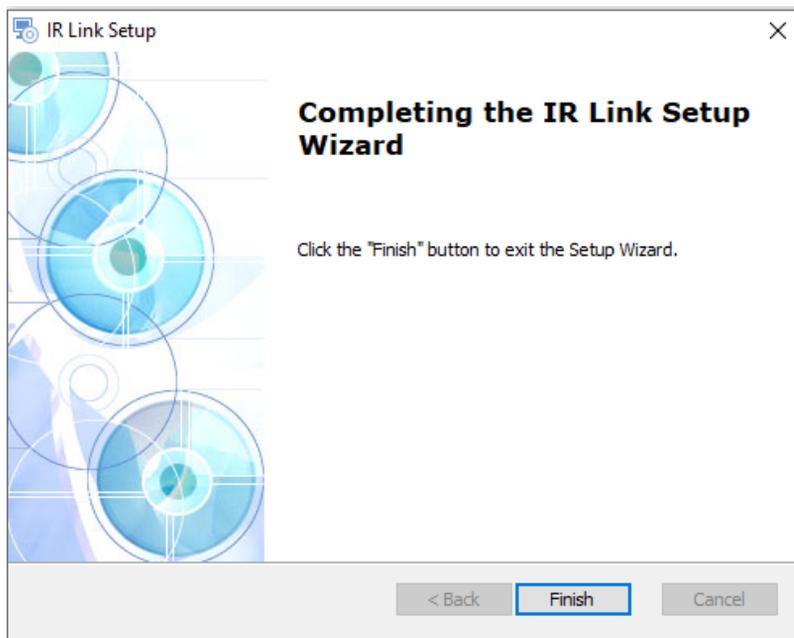
- ✓ The Installation is ready to begin.
- ✓ Click "Install".



- ✓ Click “Yes” if you receive warning message.



- ✓ The IR Link Setup Wizard is complete.
- ✓ Click the “Finish” button to exit the Setup Wizard.



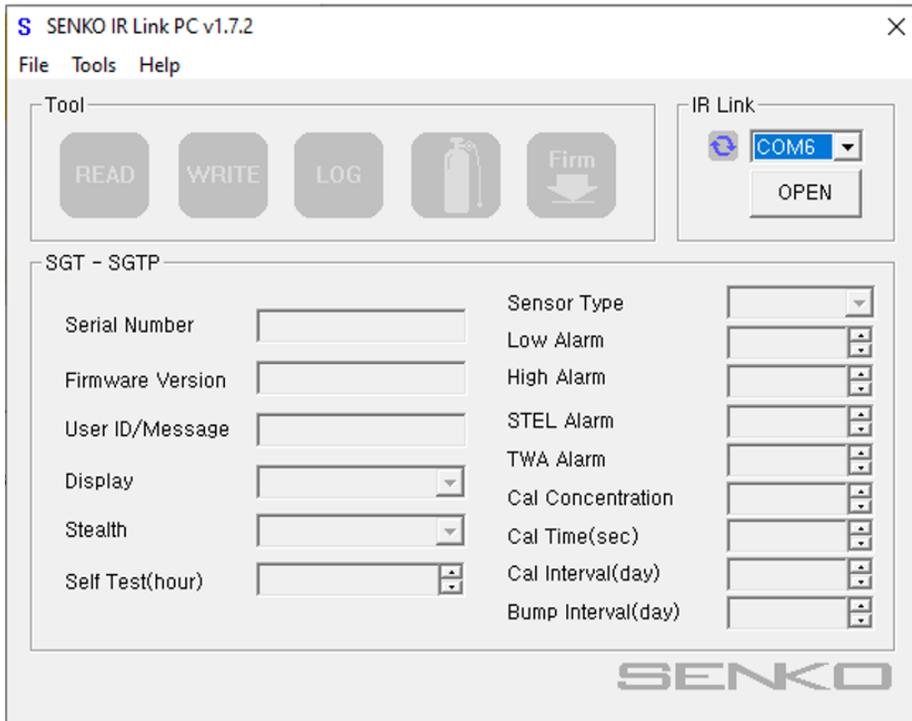
- ✓ You may run the Driver now and connect to your SGT or SGT-P now.

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

### 3. Launch the Software

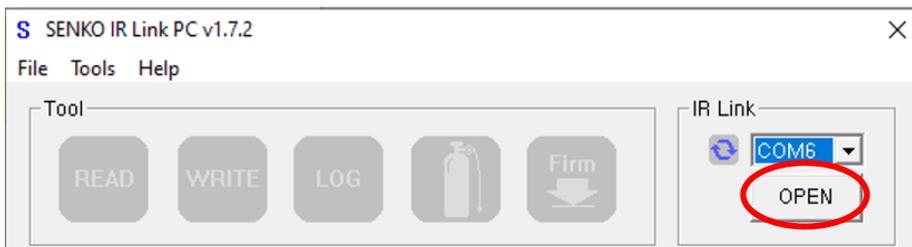
#### 3.1 Software Interface

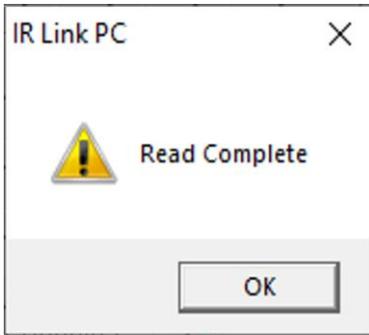
To launch the Software, plug the IR Link to PC and click the icon, allow the software to make changes to the PC (click “Yes”). When Software is opened, the fields are grayed out and before it can be used, the IR Link must be connected to the SGT or SGT-P.



#### 3.2 Open the IR Link communication port

By clicking “Open” button, the software allows communication between IR Link and computer. When communication is successfully established, “Read Complete” message pops up and the IR Link automatically scans for an available device.

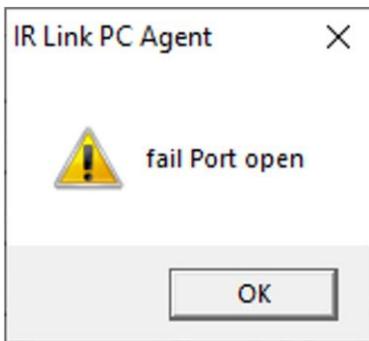




“Read Complete” alerts when established successful communication.

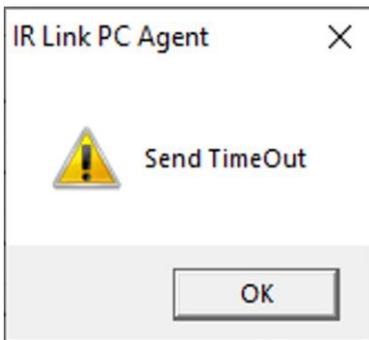
### 3.3 Connection Errors

#### 3.3.1 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.

#### 3.3.2 Send Time Out

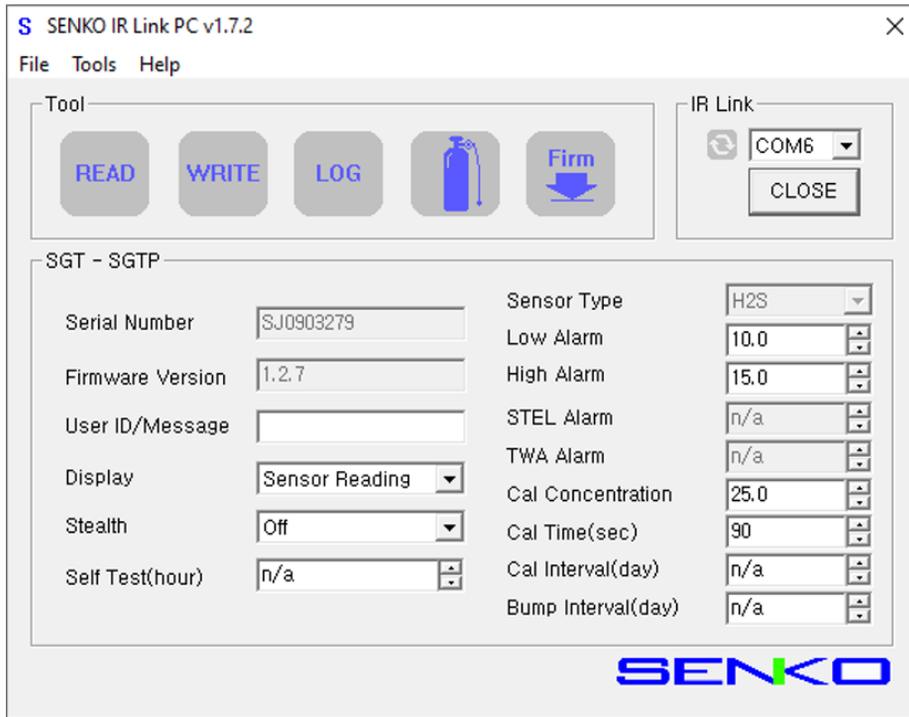


“Send Time Out” message pops up if IR Link connection is not found between IR Link and the SGT/SGT-P. In this case, put the IR Link facing up while SGT/SGT-P facing down. Leave around 1cm distance between IR Link and SGT/SGT-P Infrared port.

## 4. SGT/SGT-P Configuration Screen 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 Functions (Tool)



**READ:** By pressing the “Read” it displays current settings of the SGT/SGT-P and will discard any unsaved changes in the Tab.

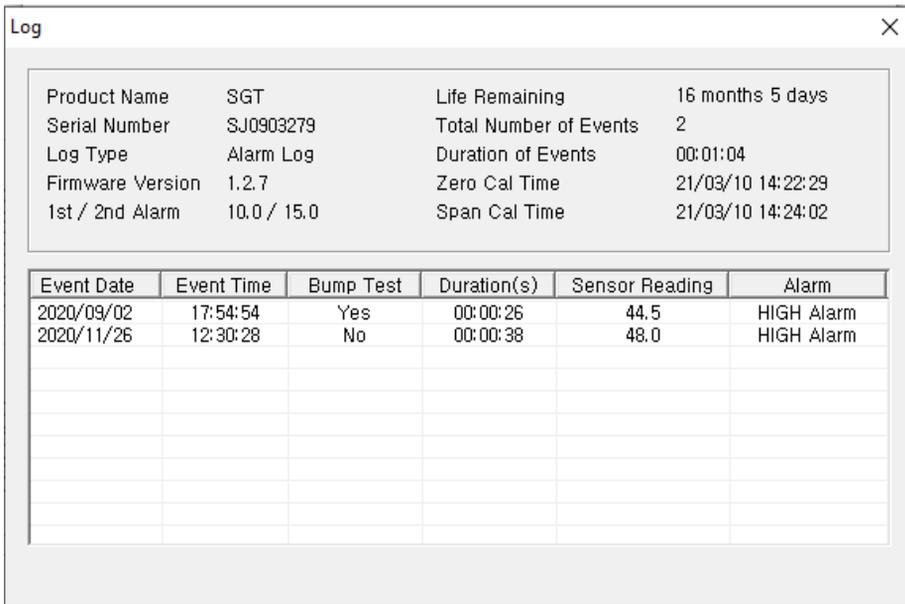
**WRITE:** “Write” allows a user to save newly customized configurations and settings.

**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).

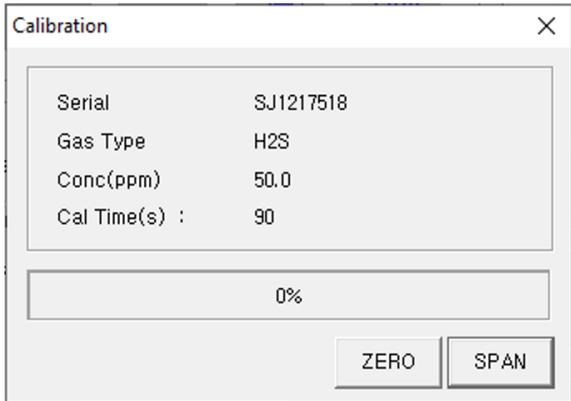
**FIRM:** Upgrade current firmware to latest one to get more benefit from your device. The latest firmware is available to download in our homepage.

### 4.2.1 Log



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

### 4.2.2 Calibration



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 SGT/SGT-P aligned until the download or calibration complete.

### 4.3 Functions (SGT-SGTP)

SGT - SGTP	
Serial Number	SJ0903279
Firmware Version	1.2.7
User ID/Message	
Display	Sensor Reading
Stealth	Off
Self Test(hour)	n/a

Sensor Type	H2S
Low Alarm	10.0
High Alarm	15.0
STEL Alarm	n/a
TWA Alarm	n/a
Cal Concentration	25.0
Cal Time(sec)	90
Cal Interval(day)	n/a
Bump Interval(day)	n/a

**Serial Number:** Serial number of SGT/SGT-P.

**Firmware Version:** The current firmware version.

**User ID/Message:** The User ID can be used to add a usage message.

**Display:** Users can choose to display either the real time "Sensor Reading" or "Sensor Life remaining."

**Stealth:** Users can turn off the buzzer, LED, and vibration in special circumstances.

**Self Test:** Set an interval of the self-test alert.

**Sensor Type:** Current sensor type in the device (not adjustable).

**Low / High Alarm:** Low and High alarm setpoints of the device. User can adjust alarms in compliance with international or local standards.

**STEL / TWA Alarm:** STEL and TWA alarm setpoints of the device. User can adjust alarms in compliance with international or local standards. This function is available for SGT-P.

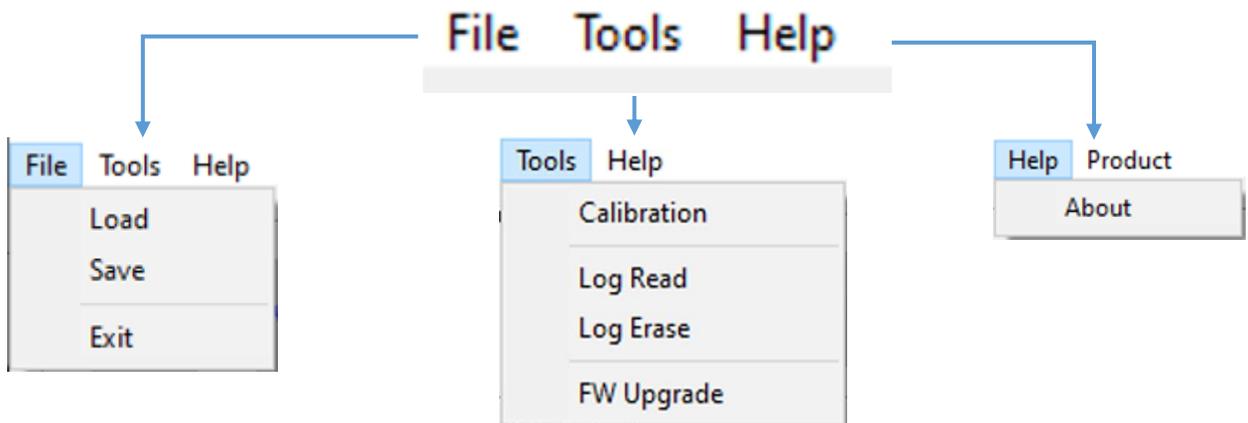
**Cal. Concentration:** Users can set a standard calibration value.

**Cal Time:** Required time to complete Span calibration.

**Cal. Interval:** The calibration reminder alerts every fixed day (can adjust 0~365 days).

**Bump Interval:** The Bump test reminder alerts every fixed day (can adjust 0~365 days).

## 4.4 Optional Functions



**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.

**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.

**About:** Display brief information about Manufacturer`s profile.

## 5. Specification

Model	IR Link
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, lightning, 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.



73, Oesammi-ro 15 beon-gil, Osan-si, Gyeonggi-do, 18111, South Korea

Tel : 82-31-492-0445  
Email : sales@senko.co.kr

Fax : 82-31-492-0446  
Web : www.senko.co.kr