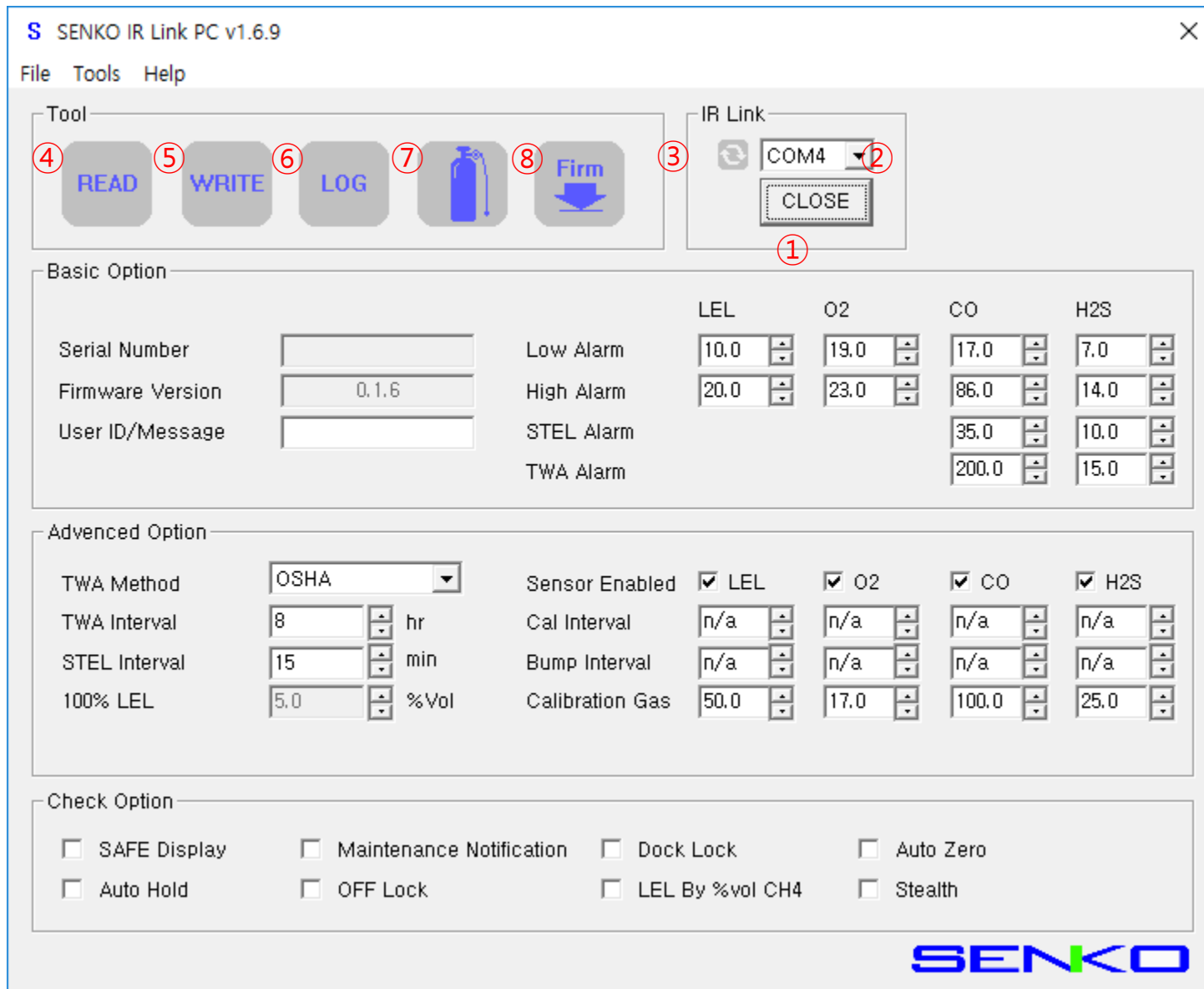


MGT-PC Program

1. 버튼 구성



- ① Open : MGT와 IR Link 연결
- ② Port : IR Link Port 선택 창
- ③ Refresh : 연결 된 Port 검색
- ④ Read : MGT 설정 읽기
- ⑤ Write : MGT 설정 저장
- ⑥ Log : MGT Alarm Log 읽기
- ⑦ Calibration : 표준 가스 보정 수행
- ⑧ Firm : Firmware 업로드

2. IR Link 연결 & READ

S SENKO IR Link PC v1.6.9

File Tools Help

Tool

READ WRITE LOG Firm

IR Link

COM4 CLOSE

Basic Option

	LEL	O2	CO	H2S
Serial Number	10.0	19.0	17.0	7.0
Firmware Version	0.1.6	23.0	86.0	14.0
User ID/Message			35.0	10.0
			200.0	15.0

Advanced Option

TWA Method: OSHA

TWA Interval: 8 hr

STEL Interval: 15 min

100% LEL: 5.0 %Vol

Bump Interval: n/a

Calibration Gas: 50.0

O2 CO H2S

n/a n/a n/a

n/a n/a n/a

17.0 100.0 25.0

Check Option

SAFE Display Maintenance Notification Dock Lock Auto Zero

Auto Hold OFF Lock LEL By %vol CH4 Stealth

IR_Link_PC

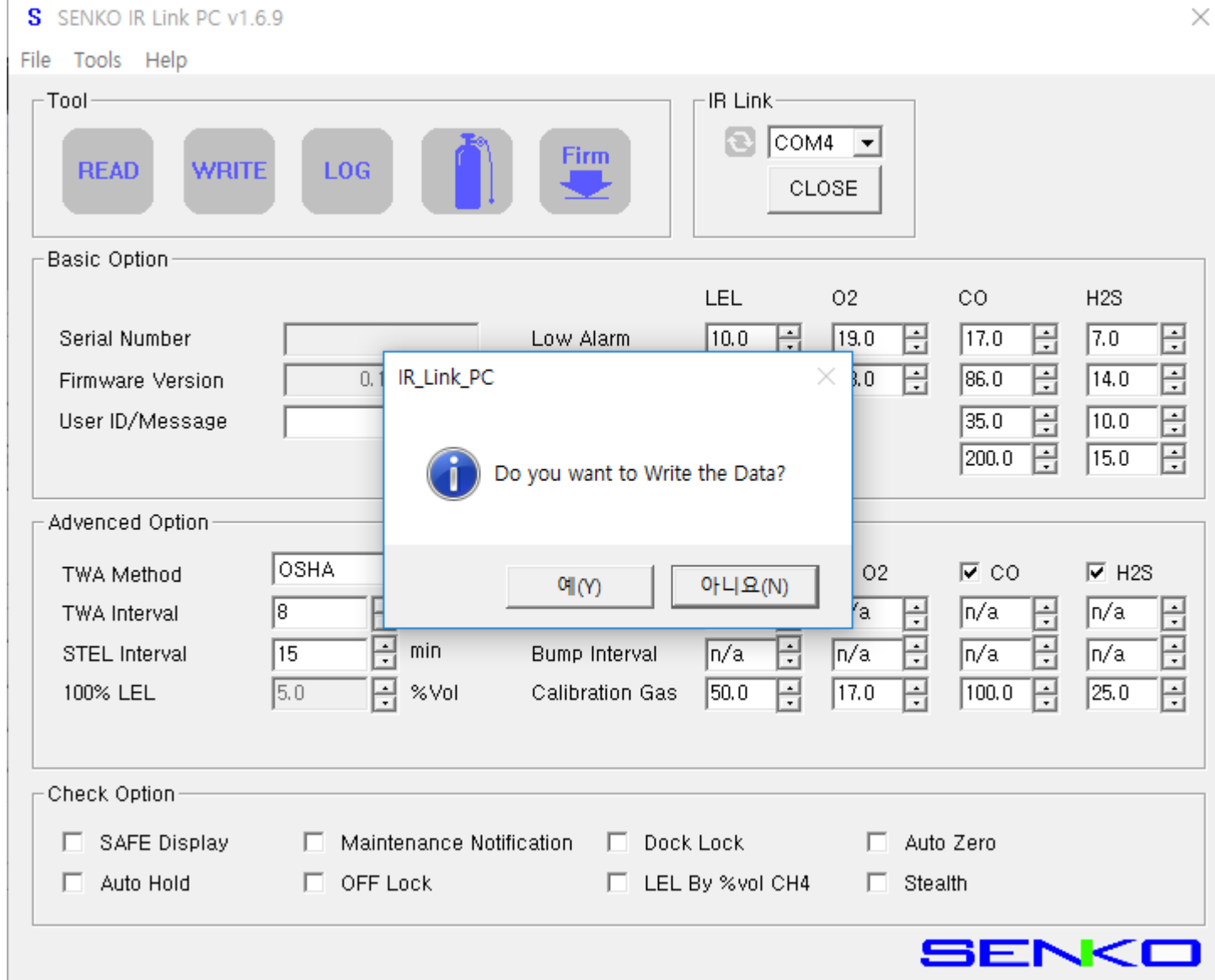
Read Complete

확인

SENKO

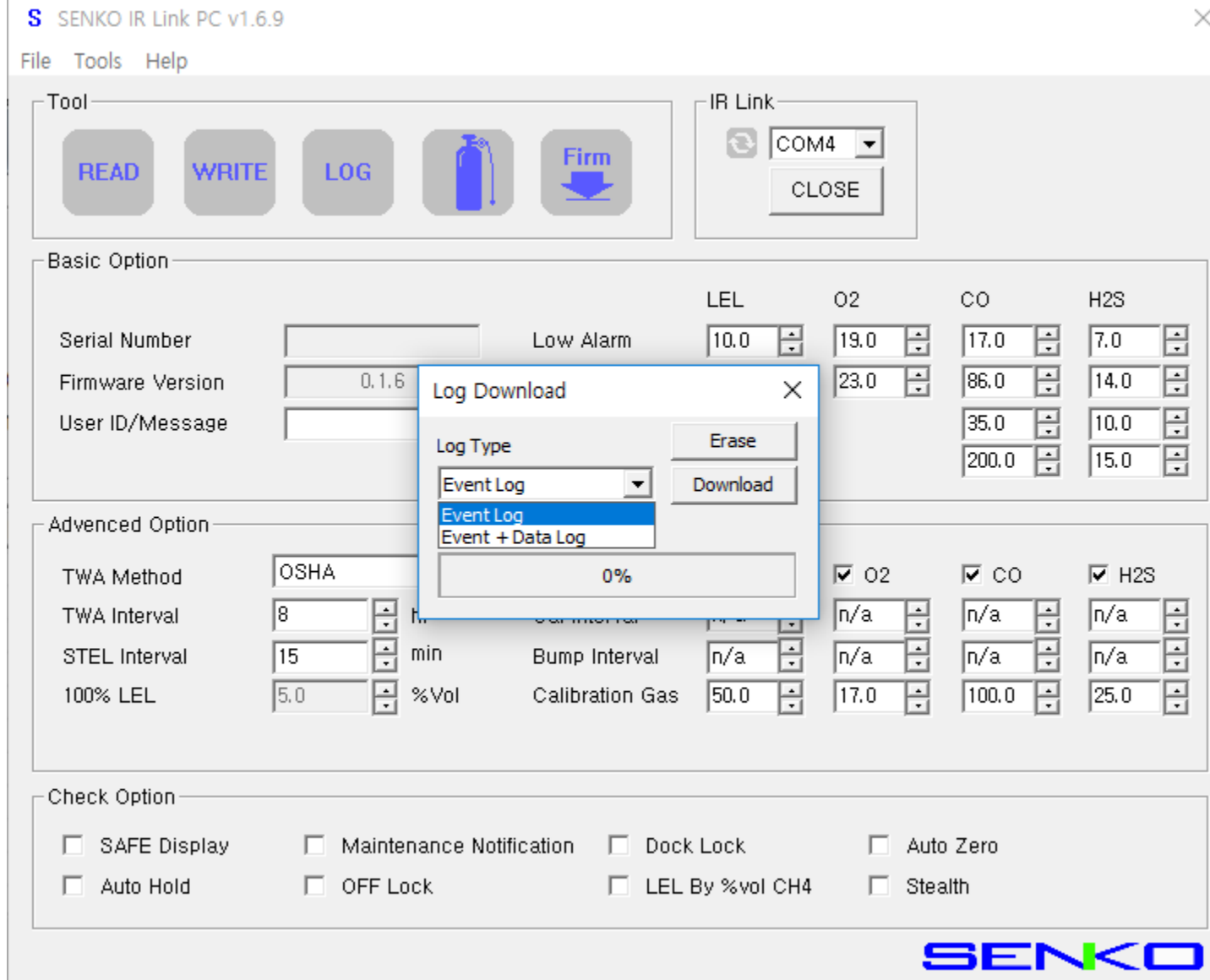
- [OPEN] 버튼 클릭, MGT 와 정상 연결 되면 'Read Complete' Message 와 함께 설정이 읽어짐.
- [READ] 버튼 클릭 시, 설정을 다시 읽음.

3. WRITE



- 변경 하고자 하는 설정 값을 입력 후, [WRITE] 버튼을 클릭 하면 확인 창이 나옴.
- Low Alarm의 경우 High Alarm 보다 작은 값이어야 하고 각 수치 값들은 장비의 최대치를 넘을 수 없다.

4. LOG Read



- [LOG] 버튼 클릭 시, Event Log 와 Event Log + Data Log 를 Excel 파일로 저장한다

5. CALIBRATION

SENKO IR Link PC v1.6.9



File Tools Help

The screenshot displays the main interface of the SENKO IR Link PC v1.6.9 software. At the top, there is a menu bar with 'File', 'Tools', and 'Help'. Below the menu bar, there are several tool buttons: 'READ', 'WRITE', 'LOG', a gas cylinder icon, and 'Firm'. To the right, there is an 'IR Link' section with a dropdown menu set to 'COM4' and a 'CLOSE' button. The main area is divided into several sections: 'Basic Option' (Serial Number, Firmware Version, User ID/Message), 'Advanced Option' (TWA Method, TWA Interval, STEL Interval, 100% LEL), and 'Check Option' (SAFE Display, Maintenance Notification, Dock Lock, Auto Zero, Auto Hold, OFF Lock, LEL By %vol CH4, Stealth). A 'Calibration' dialog box is open in the center, showing fields for 'Serial', 'Gas Type' (LEL / O2 / CO / H2S), 'Conc' (Apply fresh air that free of hazardous), and 'Cal Time(s)' (0). Below these fields are 'ZERO' and 'SPAN' buttons. To the right of the dialog box, there are two columns of numerical input fields for 'CO' and 'H2S' concentrations, with checkboxes for each gas type.

CO	H2S
17.0	7.0
86.0	14.0
35.0	10.0
200.0	15.0

CO	H2S
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
n/a	n/a
n/a	n/a
100.0	25.0

- [CAL] – (Gas 통) 버튼 클릭 시, Calibration 가능한 상태로 진입.
- ZERO, SPAN 보정이 가능하며, 설정 되어 있는 농도, 시간을 기준으로 보정 된다.

6. Firmware Upgrade

SENKO IR Link PC v1.6.9



File Tools Help

The screenshot displays the main interface of the SENKO IR Link PC v1.6.9 software. At the top, there is a 'Tool' bar with buttons for READ, WRITE, LOG, and Firm. To the right, the 'IR Link' section shows a dropdown menu set to 'COM4' and a 'CLOSE' button. The main area is divided into three sections: 'Basic Option', 'Advanced Option', and 'Check Option'. The 'Basic Option' section contains fields for Serial Number, Firmware Version, and User ID/Message, along with a table of gas concentration settings for LEL, O2, CO, and H2S. The 'Advanced Option' section includes settings for TWA Method, TWA Interval, STEL Interval, 100% LEL, and various calibration and alarm intervals. The 'Check Option' section features several checkboxes for system settings like SAFE Display, Maintenance Notification, Dock Lock, Auto Zero, Auto Hold, OFF Lock, LEL By %vol CH4, and Stealth. A 'Firmware Upgrade' dialog box is open in the center, showing a file selection field with a 'BROWSE' button, a progress bar at 0%, and 'UPGRADE' and 'CANCEL' buttons. The SENKO logo is visible at the bottom right of the interface.

- [Firm] 버튼 클릭 시, 펌웨어 업로드 창이 뜬다.
- [BROWSE] 버튼을 눌러 파일을 선택 후, [UPGRADE] 버튼으로 업로드 시작.
- 정상 UPGRADE 진행 시, SGT 화면에 'IAP' 메시지 출력.

7. MENU (File)

SENKO IR Link PC v1.6.9

File Tools Help

- Load
- Save
- Exit

IR Link

COM4

CLOSE

Basic Option

Serial Number		Low Alarm	LEL	O2	CO	H2S
Firmware Version	0.1.6	High Alarm	10.0	19.0	17.0	7.0
User ID/Message		STEL Alarm	20.0	23.0	86.0	14.0
		TWA Alarm			35.0	10.0
					200.0	15.0

Advanced Option

TWA Method	OSHA	Sensor Enabled	<input checked="" type="checkbox"/> LEL	<input checked="" type="checkbox"/> O2	<input checked="" type="checkbox"/> CO	<input checked="" type="checkbox"/> H2S
TWA Interval	8 hr	Cal Interval	n/a	n/a	n/a	n/a
STEL Interval	15 min	Bump Interval	n/a	n/a	n/a	n/a
100% LEL	5.0 %Vol	Calibration Gas	50.0	17.0	100.0	25.0

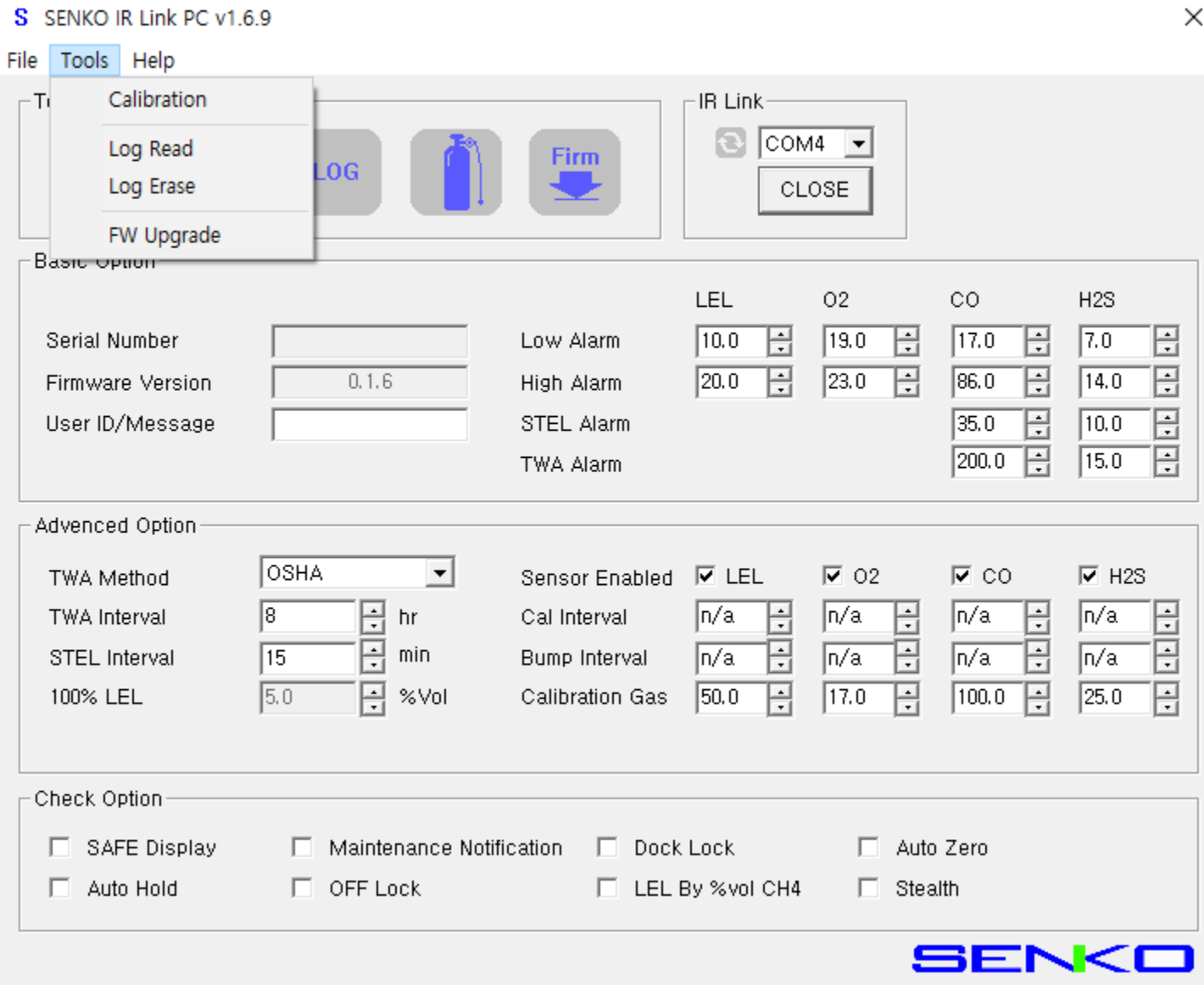
Check Option

<input type="checkbox"/> SAFE Display	<input type="checkbox"/> Maintenance Notification	<input type="checkbox"/> Dock Lock	<input type="checkbox"/> Auto Zero
<input type="checkbox"/> Auto Hold	<input type="checkbox"/> OFF Lock	<input type="checkbox"/> LEL By %vol CH4	<input type="checkbox"/> Stealth

SENKO

- Load : 파일로 부터 설정 불러오기
- Save : 현재 설정 파일로 저장
- Exit : 프로그램 종료

8. MENU (Tools)



User 용 메뉴

- Calibration : 보정 창 실행 버튼
- Log Read : 장비 Log Data 읽기
- Log Erase : 장비 Log 지우기
- FW Upgrade : 펌웨어 업그레이드

9. Option

SENKO IR Link PC v1.6.9



File Tools Help

Tool: READ WRITE LOG Firm

IR Link: COM4 CLOSE

Basic Option

Serial Number	<input type="text"/>	Low Alarm	LEL	O2	CO	H2S
Firmware Version	0.1.6	High Alarm	10.0	19.0	17.0	7.0
User ID/Message	<input type="text"/>	STEL Alarm	20.0	23.0	86.0	14.0
		TWA Alarm			35.0	10.0
					200.0	15.0

Advanced Option

TWA Method	OSHA	Sensor Enabled	<input checked="" type="checkbox"/> LEL	<input checked="" type="checkbox"/> O2	<input checked="" type="checkbox"/> CO	<input checked="" type="checkbox"/> H2S
TWA Interval	8 hr	Cal Interval	n/a	n/a	n/a	n/a
STEL Interval	15 min	Bump Interval	n/a	n/a	n/a	n/a
100% LEL	5.0 %Vol	Calibration Gas	50.0	17.0	100.0	25.0

Check Option

<input type="checkbox"/> SAFE Display	<input type="checkbox"/> Maintenance Notification	<input type="checkbox"/> Dock Lock	<input type="checkbox"/> Auto Zero
<input type="checkbox"/> Auto Hold	<input type="checkbox"/> OFF Lock	<input type="checkbox"/> LEL By %vol CH4	<input type="checkbox"/> Stealth

SENKO

Basic Option

- 시리얼 넘버
- 펌웨어 버전
- 사용자 아이디 (사용자간의 구분 ID)
- 가스별 1,2차 알람 설정 및 STEL, TWA 알람 설정

Advanced Option

- TWA Method (TWA 계산에 사용되는 이동평균 또는 누적평균 설정)
- TWA Interval(장기간 평균 기간 설정)
- STEL Interval(단기간 평균 기간 설정)
- 센서 활성화 선택
- Cal Interval(보정 알람 일수 설정)
- Bump Interval(범프 알람 일수 설정)
- Calibration Gas
(보정가스 기준값 설정, 단위는 ppm)


10. Option(Check Option)

SENKO IR Link PC v1.6.9

×

File Tools Help

Tool

READ WRITE LOG  Firm

IR Link

COM4 CLOSE

Basic Option

Serial Number	<input type="text"/>	Low Alarm	LEL	O2	CO	H2S
Firmware Version	0.1.6	High Alarm	10.0	19.0	17.0	7.0
User ID/Message	<input type="text"/>	STEL Alarm	20.0	23.0	86.0	14.0
		TWA Alarm			35.0	10.0
					200.0	15.0

Advanced Option

TWA Method	OSHA	Sensor Enabled	<input checked="" type="checkbox"/> LEL	<input checked="" type="checkbox"/> O2	<input checked="" type="checkbox"/> CO	<input checked="" type="checkbox"/> H2S
TWA Interval	8 hr	Cal Interval	n/a	n/a	n/a	n/a
STEL Interval	15 min	Bump Interval	n/a	n/a	n/a	n/a
100% LEL	5.0 %Vol	Calibration Gas	50.0	17.0	100.0	25.0

Check Option

<input type="checkbox"/> SAFE Display	<input type="checkbox"/> Maintenance Notification	<input type="checkbox"/> Dock Lock	<input type="checkbox"/> Auto Zero
<input type="checkbox"/> Auto Hold	<input type="checkbox"/> OFF Lock	<input type="checkbox"/> LEL By %vol CH4	<input type="checkbox"/> Stealth

SENKO

- Safe Display (안전지대에 있을 경우 LCD에 "Safe Zone" 표기 기능)
- Maintenance Notification (cal/bump interval 설정기간이 되면 LED 표시)
- Dock Lock (체크 시 기기에서 cal / bump 테스트 Disable)
- Auto Zero (전원 ON 시 자동으로 Zero 보정 작업 진행)
- Auto Hold (알람이 발생할 경우 peak 값 Display)
- Off Lock (전원 OFF 동작 Disable)
- LEL By %vol CH4 (CH4일 경우 100%LEL 값에 따른 농도값 변경)
- Stealth (알람 기능 Disable)