



# 深达威® 台式噪音计

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## Sound Level Meter

### 用户手册

User Manual



**SW-525S**



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中 文 ----- 04~15

English ----- 16~29

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产品执行标准：GB/T 3785-2010

## 用 户 须 知

- ◆ 本手册详细介绍了产品的使用方法、注意事项以及相关事项，在使用产品之前，请详细阅读手册，以便发挥产品的最佳效能。
- ◆ 不要在易燃、易爆的环境中使用仪器。
- ◆ 报废的仪器不可与生活垃圾一同处理，请按国家或者当地的相关法律规定处理。
- ◆ 仪器出现任何的质量问题，或对使用仪器有任何疑问时，请及时联系当地经销商或深达威厂家，我们将第一时间为您解决。

感谢您购买  深达威<sup>®</sup> 仪器 噪音计系列产品！

# 一、 使用之前

## 装箱清单

购买仪器时请按下列清单认真检查仪器所有附件是否完整？

序号	名称	单位	数量	备注
1	台式噪音计	台	1	
2	USB连接线	条	1	
3	说明书	本	1	
4	保修卡	张	1	

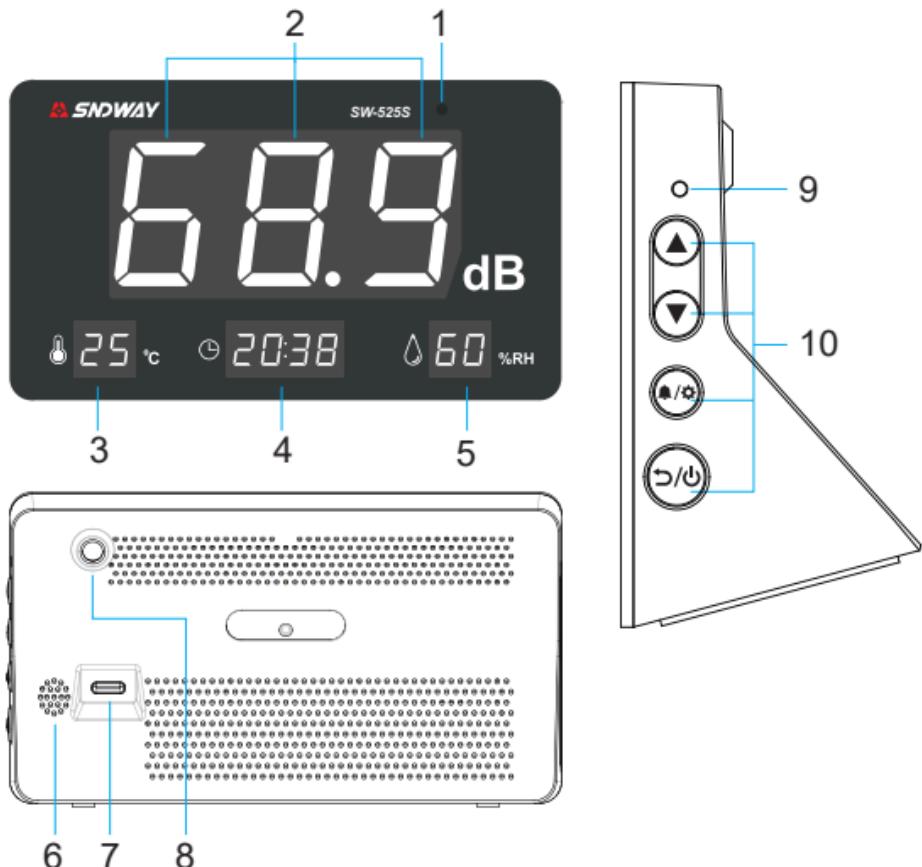
## 简介

本仪器主要用来测定环境噪声、做噪音工程、品质控制以及健康防治等。应用于工厂、办公室、交通道路、音响、家庭以及空调、冰箱等各种场合。

## 特点和功能

- 精度：±1.5dB（以标准声源为准，94dB@1KHz）。
- 测量范围：30~130dB。
- 频率响应范围：31.5Hz~8.5KHz。
- 频率计权：A（环境噪音）计权。
- 时间响应：FAST（快）。
- 可通过USB数据线与电脑通信、具有下载记录、实时采样、打印图表和数据等功能。

## 各部分部件名称



1. 充电、报警开关指示灯
2. 3位数码管显示, 用于显示噪音值
3. 2位数码管显示, 用于显示当前温度值
4. 4位数码管显示, 用于显示当前时间值
5. 2位数码管显示, 用于显示当前湿度值
6. 报警蜂鸣器
7. USB电源插口

8. 电容麦克风传感器
9. 校准旋钮(厂商预留, 仪器出厂已经校准好, 请用户不要自行调整)
10. 按键:

按键	名称	说明
	电源开关键、 返回键	短按开机, 长按关机; 设置界面下 短按返回主界面
	下键	设置时, 短按减小设置值, 长按 可连续调整
	上键	设置时, 短按增大设置值, 长按 可连续调整
	报警开关 设置键	短按设置报警开关, 长按进入设置

## 技术参数

项目	SW-525S
测量范围	30~130dB
精度	±1.5dB (以标准声源为准, 94dB@1KHz)
频率响应	31.5Hz~8.5KHz
频率计权	A权
响应时间	FAST(快)
麦克风	6mm电容式麦克风
噪音显示位数	3位数
解析度	0.1dB(<100dB) 1dB(>100dB)
报警提示(声音+显示)	√
闹钟功能	√
时间显示	24小时制
温度显示位数	2位数
湿度显示位数	2位数
存储功能	2秒/笔, 可存一年
与电脑通信	通过USB数据线与电脑通信
供电方式	DC5V 2A Type-C USB接口
锂电池容量	4000mAh 3.7V
电池续航时间	约16小时
低电量提示	低于 3.6V ± 0.1
工作温湿度	0~40°C, 10%~80%RH
储存温湿度	-10~60°C, 10%~70%RH
尺寸	151x48x86mm
净重	281g

## 注意事项

- ◆ 不要在高温，高湿度的环境下使用。
- ◆ 不要在带有腐蚀性物质附近使用。
- ◆ 不要在可能被水溅湿的环境下使用。
- ◆ 不要在粉尘大的环境下使用。
- ◆ 不要在带有化学气体的环境中使用。

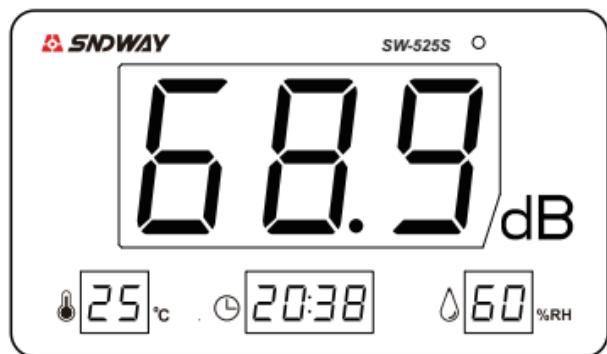
## 二、仪器使用

### 仪器开机

开关机：短按  键开机，长按  键关机；

自动开机功能：产品上电会自动开机。

仪器开机后，等待2秒进入测量状态，屏幕显示噪音值。

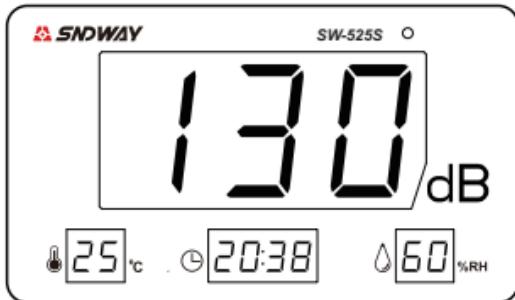


## 仪器报警

### 1. 报警开关

默认开启报警功能。短按  /  键关闭报警，红色灯灭；再短按  /  键开启报警功能，红灯常亮。报警开关设置后，将会保存。

### 2. 设置报警值



仪器出厂默认报警值为130dB。用户可以自行调整，操作如下：(报警值可调范围：50~130dB)

- 1 > 正常测量状态下，长按  /  键，进入报警设置，此时屏幕显示当前报警值，屏幕闪烁；
- 2 > 通过  /  键调整报警值大小，长按  /  键可连续调整；
- 3 > 短按  /  键保存报警值，或者短按电源键取消设置返回测量状态。注：短按  /  键会进入报警时间设置，用户此时可通过短按  /  键返回测量状态。

### 3. 报警功能(声音+显示)

当仪器的测量值超过设置的报警值时，仪器会发出“滴滴滴滴”的报警声，并且锁定测量数据，闪烁显示测量值。仪器报警持续时间为2分钟，2分钟结束后或者报警过程中短按任意按键，仪器停止声响，屏幕不闪烁，红灯闪烁，但仍锁定数据，等待5秒后，仪器恢复正常测量。

**注:若仪器恢复正常测量后，测得的第一笔数据仍超过报警值，仪器会又一次进入报警。**

### 4. 报警时间和声音大小设置

仪器出厂默认报警时间为2分钟。报警声音为模式3。用户可自行调整，报警时间可调范围为：6-120秒，报警声音分为3个模式。模式1报“滴滴”，模式2报“滴滴滴”，模式3报“滴滴滴滴”。具体操作请参考《系统设置》。

### 5. 低电量提示

当电池电压低于 $3.6V \pm 0.1$ 时，红灯常亮。当此时有噪音报警产生，则会被报警提示打断。当电池电压高于 $3.6V \pm 0.1$ 时，则是报警状态指示。

### 6. 充电提示

当外部电源接入时，机器自动开机，此时如果绿色指示灯1秒闪烁一次，则表示机器正在充电；绿色指示灯常亮，则表示电池已经充满。充电中，只显示绿灯，不显示红灯。

### 7. 充电状态下关机

当机器正在充电时，可以长按  键关机，但充电指示灯会正常工作，当拔掉外接电源，则会完全关机，在充电时关机状态下，短按  键开机。

## 8. 闹钟提示

闹钟时间到后，在无人操作的情况下，一共响三次，单次时间是30秒。手动按任意键，则会取消闹钟报警。

## 9. 指示灯

序号	状态	灯指示
1	充电中	绿灯1s闪烁一次
2	充满电	绿灯常亮
3	报警开启	红灯常亮
4	报警关闭	红灯熄灭
5	报警中	红灯1s闪烁一次

注：充电中，不显示红灯，只显示绿灯。

## 存储数据

仪器每2秒自动存储一次数据，存储的值为2秒最大的噪音值。仪器可连续存储一年时间，一年期满到后，仪器自动清空前半年的数据。用户可通过USB数据线连接电脑软件导出记录。

## 清除记录

在关机状态下，长按  /  键和  /  键开机，等待仪器开机并显示“*CLR*”，再松开这两个按键。此时，需要等待“*CLR*”消失，并开始显示噪音数值时，记录即清空。

## 系统设置



报警值设置



报警时间设置



报警声音设置



年设置



月设置



日设置



小时设置



分钟设置



秒设置

系统设置参数包括：报警值、报警时间、报警声音、年、月、日、时、分、秒。通过长按  键进入系统设置的报警值设置（报警设置可参考〈仪器报警〉），系统设置操作如下：

- 1 > 通过  键调整参数，长按可连续调整；
- 2 > 短按  键保存参数，并进入下一个参数设置（参数设置顺序：报警值->报警时间->报警声音->年->月->日->时->分->秒）；
- 3 > 若用户不想保存参数，可短按  键返回正常测量。

## 闹钟设置

在仪器开机后，同时短按  和  键，进入闹钟设置界面。

主屏幕显示“”，此时显示时钟的屏幕会闪烁，通过  键，可以调整时钟。短按  键，会跳到分钟设置，显示分钟的屏幕会闪烁，通过  键，可以调整分钟。再按一下  键，主屏幕会闪烁 ON/OFF，通过  键，可以切换闹钟开启/关闭。OFF表示关闭，ON表示开启，再按  键保存当前设置值，并返回到主界面。

## 连接电脑

仪器支持电脑应用程序，可通过USB数据线与电脑通信、下载记录、实时采样、打印图表和数据等。软件包为 NoiseMeter.rar 文件，解压后，打开安装和使用说明文件夹，根据提示进行软件安装。安装前请仔细参阅《安装和使用说明》。

软件下载路径：

步骤一：搜索 <https://www.sndway.com> 进入官网；

步骤二：点击【支持与下载】，找到底部【软件下载】区域，点击【SW-525B壁挂式噪音计】，输入验证码，下载【SW\_525B\_免驱动版本】安装包；

步骤三：解压安装包，双击打开【NoiseMeter】文件夹，选中【NoiseMeter.exe】应用程序，双击打开即可。

## 三、其它

### 常见问题

1、显示器无显示

- (1) 没有按电源键开机。
- (2) USB连接线损坏：更换USB数据线。
- (3) 电源适配器损坏：更换电源适配器。

## 2、无法与电脑通信

- (1) USB数据线损坏：更换USB数据线。
- (2) 电脑接口损坏：插电脑其它USB接口或更换电脑主机。
- (3) 不是Windows系统：请使用Windows系统的电脑(Xp, Win7, Win8, Win10)。
- (4) 仪器USB接口损坏：返厂维修。

## 仪器保养

### 1、机壳的清洁

酒精、稀释液等对机壳，尤其是视窗有腐蚀作用，清洁时，使用较干的湿布轻轻擦拭即可。

## 附录A 音量参考

0—20分贝	很静、几乎感觉不到；
20—40分贝	安静、犹如轻声絮语；
40—60分贝	一般、普通室内谈话；
60—70分贝	吵闹、有损神经；
70—90分贝	很吵、神经细胞受到破坏。
90—100分贝	吵闹加剧、听力受损；
100—120分贝	难以忍受、呆一分钟即暂时致聋。
120分贝以上	极度聋或全聋

# User Instructions

- ◆ This user's manual includes the method of use and notes of the product. Before using this product, please read this manual in detail for putting Sound Level Meter to good use.
- ◆ Do not use this Sound Level Meter in inflammable and explosive environment.
- ◆ Please deal with Sound Level Meter in accordance with the relevant national or local law when it's scrapped.
- ◆ When Sound Level Meter is out of work or do not know how to use it, please contact the local dealers or manufacture.

# 1. Before Using

## Packing List

Please check if the accessories are complete according to the following list. If not, please contact the distributor or Sndway manufacturer in time.

No.	Description	Unit	Qty.	Remarks
1	Sound Level Meter	pc	1	
2	USB Cable	pc	1	
3	User manual	pc	1	

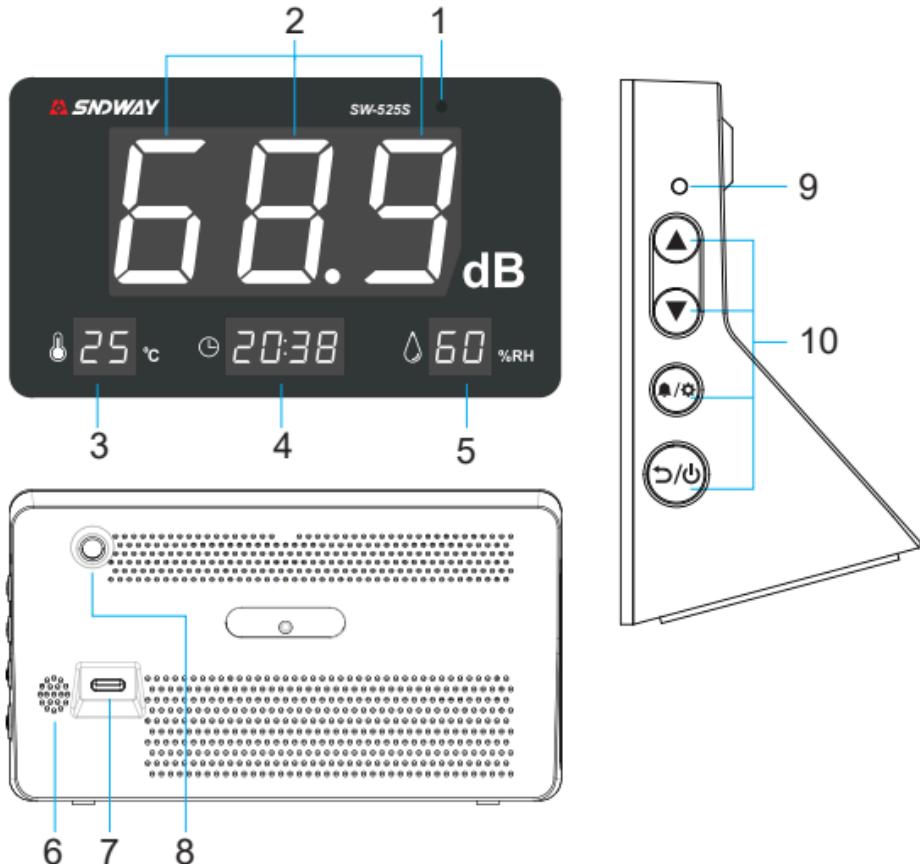
## Introduction

This instrument is mainly used for measuring environmental noise, noise engineering, quality control and health prevention and treatment, such as factory, office, traffic road, audio, home and air conditioner, refrigerator and other occasions.

## Features and Functions

1. 5dB (Standard sound source: 94dB@1KHz).
2. Measuring Range: 30~130dB
3. Frequency response range: 31.5HZ~8.5HZ
4. Frequency weighting: A (Ambient Noise)Weighting
5. Response time: Fast
6. Connecting computer with USB cable, user can download records, collect samples and print chart and data.

## Product Structure



1. Alarm light
2. 3-digit nixie tube display for noise value
3. 2-digit nixie tube display for temperature value
4. 4-digit nixie tube display for current time
5. 2-digit nixie tube display for humidity value
6. Alarm buzzer
7. USB port

## 8. Microphone sensor

9. Calibration knob. The instrument has been calibrated before leaving the factory, please do not adjust the meter.

## 10. Buttons

Button	Description	Specification
	Power ON/OFF key	Short press to power on, long press to power off
	Down key	Short press to reduce the setting value, long press to adjust it continuously
	Up key	Short press to increase the setting value, long press to adjust it continuously
	Alarm ON/OFF key	Short press for alarm on/off, long press for setting

## Specifications

Item	SW-525S
Measuring Range	30~130dB
Accuracy	±1.5dB(Take standard sound source as standard, 94dB@1KHz)
Frequency Response	31.5Hz~8.5KHz
Frequency Weighting	A
Response Time	FAST
Microphone	6mm condenser microphone
Noise display digit	3 digits
Resolution	0.1dB(<100dB) 1dB(>100dB)
Alarm (sound+Display)	√
Alarm clock	√
Time Display	24-hour system
Temperature display digit	2 digits
Humidity display digit	2 digits
Storage Function	2s/unit, store for 1 year
Connecting Computer	Communicate with the computer via wire
Power Supply	DC5V 2A Type-C USB port
Li-ion capacity	4000mAh 3.7V
battery life	About 16 hours
Low battery warning	less than 3.6V ± 0.1
Operating Temperature and Humidity	0~40°C, 10%~80%RH
Storage Temperature and Humidity	-10~60°C, 10%~70%RH
Dimension	151x48x86mm
N.W.	281g

## Notes

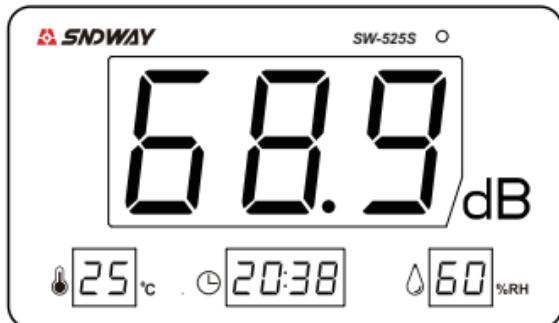
- ◆ Do not use the meter in high temperature and humidity environment.
- ◆ Do not use the meter near corrosive substances.
- ◆ Do not use the meter in an environment where it may be splashed.
- ◆ Do not use the meter in a dusty environment.
- ◆ Do not use the meter in an environment with chemical gases.

## 2. Instructions

### Power on/off

On/Off: Short press / key to start, long press / key to shut down;

Auto power on: The product automatically starts after being powered on. When manually press / key to shut down, power off for more than 2 minutes, and then power on, the instrument will automatically turn on.



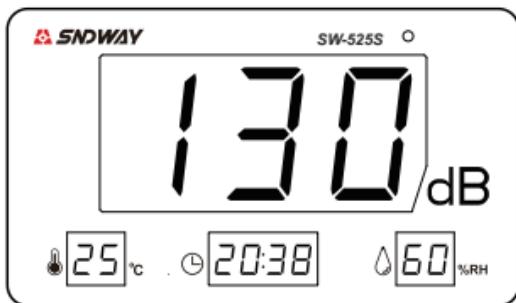
## Alarm

### 1. Alarm on/off

The alarm function is enabled by default.

Short press  to turn off the alarm, and the red light is off. Press the  button again to turn on the alarm, and the red light is on.

### 2. Alarm Value Setting



The default alarm value is 130dB. Users can adjust it from 50 to 130dB. The operation is as follows:

- 1> Under normal measurement state, long press  to enter alarm setting. At this time, the screen displays the current alarm value and the screen blinks.
- 2> Adjust the alarm value by pressing   , long press   can adjust the alarm value continuously;
- 3> Press  to save the alarm value, or press the power key to cancel the setting and return to the measurement state.

**Note:** Short press  to enter the alarm time setting, then the user can return to the measurement state by short pressing .

### 3. Alarm Function(Sound + Display)

When the measured value exceeds the set alarm value, the instrument will beep, lock the measurement data, and display the flashing measurement value. The alarm duration is 2 minutes. After 2 minutes or short press any key, the instrument stops making sound, the screen does not blink, but the data is still locked. After 5 seconds, the instrument returned to normal measurement.

**Note: If the instrument restores the normal measurement, and the first measured value still exceeds the alarm value, the instrument will alarm again.**

### 4. Alarm Time & Volume

The default alarm time of the instrument is 2 minutes. The default alarm volume is mode 3. The alarm time can be adjusted from 6-120 seconds. The alarm volume is divided into 3 modes. Mode 1 sounds "Beep, beep", mode 2 sounds "Beep, beep, beep", mode 3 sounds "Beep, beep, beep, beep". Please check System Setting for more operation details.

### 5. Low Battery Warning

When the battery voltage is lower than  $3.6V \pm 0.1$ , the red light is on. When a noise alarm is generated at this time, it will be interrupted by the alarm prompt. When the battery voltage is higher than  $3.6V \pm 0.1$ , it is an alarm status indication.

### 6. Charging Tips

When the external power supply is connected, the instrument will turn on automatically. At this time, if the green indicator blinks once every second, it means that the instrument is charging. If the green indicator is steady on, the battery is fully charged. While charging, only the green light is displayed, not the red light.

## 7. Power off in Charging State

When the instrument is charging, long press  to shut down, the charging indicator works normally; When the external power supply is unplugged, it will shut down completely. In the shutdown state during charging, press the  to power on.

## 8. Alarm Prompt

At the preset time of the alarm clock, the alarm clock rings three times, each time for 30 seconds, when no one is operating. User can press any key to cancel the alarm.

## 9. Indicated Light

No.	Status	Light Indication
1	Charging	Green light flashes once a second
2	Fully charged	Green light stays on constantly
3	Alarm is turned on	Red light stays on constantly
4	Alarm is turned off	Red light is off
5	Alarm is working	Red light flashes once a second

Note: During charging, the red light is not displayed, only the green light is displayed.

## Data Storage

The Meter saves measuring data every 2 seconds, which is the largest value in this 2 seconds. The data can be stored for a year, after that, the data in the first half of the year would be emptied automatically. Users can export data by connecting computer.

## Clearing Record

In off state, press and hold **🔔/⚙️** key and **⚡/🔴** key to power on. When the screen displays "**CLR**", release the two keys. Then, the record is cleared when the "**CLR**" disappears and the noise value is displayed.

## System Setting



Alarm Value Setting



Alarm Time Setting



Alarm Volume Setting



Year Setting



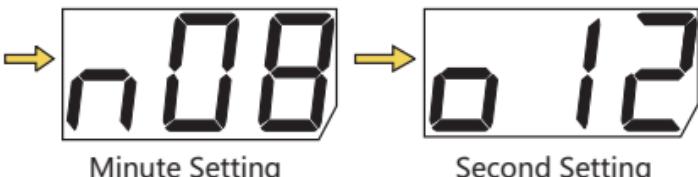
Month Setting



Day Setting



Hour Setting



System setting parameters include: alarm value, alarm time, alarm volume, year, month, day, hour, minute, second. Long press **🔔/⚙️** to enter the alarm value setting (refer to Alarm). System settings are as follows:

- 1> Press **▲▼** to adjust the parameters; Long press it for continuous adjustment.
- 2> Short press **🔔/⚙️** to save the parameter and enter the next parameter setting (sequence: alarm value->alarm time ->alarm volume->year->month->day->hour-> minute ->second).
- 3> If user does not want to save the parameters, please short press **↶/🔴** to return to normal measurement.

## Alarm Setting

After the device is powered on, press **↶/🔴** and **🔔/⚙️** at the same time to enter the Alarm Setting screen.

The home screen displays “RLI”, and the clock screen blinks. You can adjust the clock by pressing **▲▼**.

Press **🔔/⚙️** to jump to the minute setting, and the screen displaying the minute will blink. You can adjust the minute by pressing **▲▼**. Press **🔔/⚙️** again, the home screen will blink ON/OFF, through **▲▼**, you can switch the alarm on/off. OFF indicates off, ON indicates on, and then press **🔔/⚙️** to save the current value and return to the main interface.

## Connecting Computer

The instrument provides computer applications that can communicate with the computer via USB to download records, collect samples in real time, print charts and data, etc. The software package is a NoiseMeter.rar file. After decompressing, open the installation and use instructions folder. Before using the software, read the installation and use instructions carefully.

### **Program Download:**

Step 1: Visit [ <https://www.sndway.com> ];

Step 2: Click [ DOWNLOAD ], you will see  
[ Program Download ] in the bottom click  
[ SW-525B Wall-mounted Noise Meter ], enter  
the verification code to download;

Step 3: Decompress the profile, double-click the  
NoiseMeter folder. and here we go.

### 3. Others

#### Common Problems

##### 1. No display

- (1) Press the power button to power on.
- (2) USB cable is damaged, replace it.
- (3) Power adapter is damaged, replace it.

##### 2. Unable to communicate with the computer

- (1) USB cable is damaged, replace it.
- (2) Computer port is damaged, replace it.
- (3) Use the computer with Windows system (Xp, Win7, Win8, Win10).
- (4) USB port of the meter is damaged, return to factory for repair.

#### Instrument Maintenance

##### 1. Surface Cleaning

Alcohol, diluent, etc. have a corrosive effect on the housing, especially on the window, so when cleaning, use a wet cloth to gently wipe.

## Appendix A: Volume Reference

0-20dB	Very quiet, almost can't hear voice
20-40dB	Quiet,as whisper softly
40-60dB	As comfortable indoor conversation
60-70dB	Noisy,slight nerve damage
70-90dB	Very noisy, serious nerve damage
90-100dB	Extremely noisy,loss part of hearing
100-120dB	Unbearable noise,cause deafness momentarily
Over 120dB	Completely deaf or completely irreversibly deaf



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