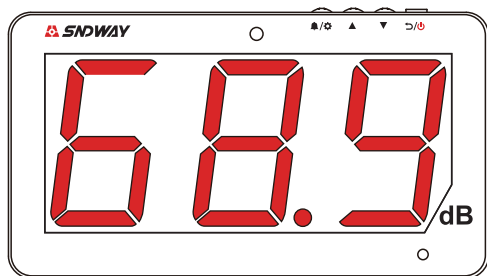


深达威® 壁挂式噪音计
Sound Level Meter

用户手册
User Manual



中 文	-----	01~11
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English	-----	12~24
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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  **SNOWWAY** 噪音计系列产品!
深达威® 仪器

一、使用之前

装箱清单

请按下列清单认真检查仪器所有附件是否完整。如不完整，请及时联系经销商或深达威厂家。

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

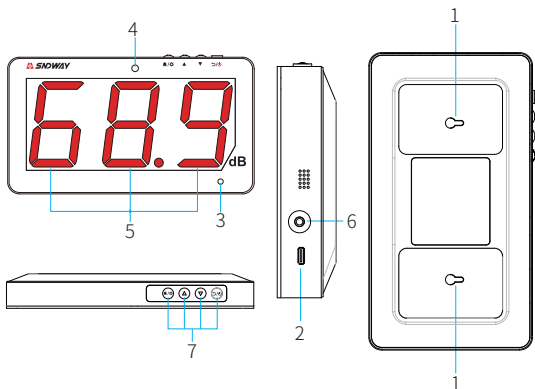
简介

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。如用于工厂、办公室、交通道路、音响、家庭以及空调、冰箱等等各种场合之噪音量测量用。

特点和功能

1. 精度： $\pm 1.5\text{dB}$ （以标准声源为准， $94\text{dB}@1\text{KHz}$ ）。
2. 测量范围： $30 \sim 130 \text{ dB}$ 。
3. 频率响应范围： $31.5 \text{ Hz} \sim 8.5 \text{ KHz}$ 。
4. 频率计权： A （环境噪音）计权。
5. 时间响应： FAST （快）。
6. 可通过USB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（仅525B/525C/525D/525G有）

各部分部件名称



1. 挂钩
2. USB电压插口
3. 报警开关指示灯
4. 电容麦克风传感器
5. 3个3.0数码管显示, 用于显示噪音值。
6. 报警输出口, 用于外接喇叭, 本产品出厂不配喇叭, 请用户自行选购, 推荐用户使用3.5mm二节或三节耳机插头的6-12V报警喇叭, 示意图:



7.按键：

按键	名称	说明
	电源开关键	短按一下开机, 长按关机
	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-525A	SW-525B	SW-525C	SW-525D	SW-525G
显示	红显		白显	红显	绿显
内置备用锂电池	×		4000mAh 3.7V锂电池		
电池续航时间	×		约7小时	约10小时	约7小时
存储功能	×	2秒/笔, 可存一年			
与电脑通信	×	通过USB线与电脑通信			
供电方式	DC5V 2A Type-C USB接口				
测量范围	30~130dB				
精度	±1.5dB(以标准声源为准, 94dB@1KHz)				
频率响应	31.5 Hz~8.5 KHz				
频率计权	A权				
响应时间	FAST(快)				
麦克风	6mm电容式麦克风				
数位显示	3位数				
解析度	0.1dB(<100dB) 1dB(>100dB)				
报警提示(声音+显示)	✓				
报警输出	✓				
工作温湿度	0~40°C, 10%~80%RH				
储存温湿度	-10~60°C, 10%~70%RH				
尺寸	228x125.5x32mm				

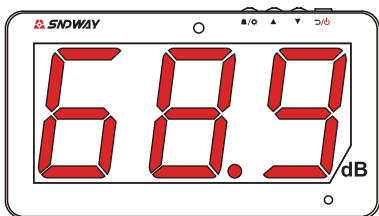
注意事项

- ◆ 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。当手动按 /  键关机之后, 须断电2分钟以上, 再上电才会自动开机。
仪器开机后, 等待2秒进入测量状态, 屏幕显示噪音
读数值

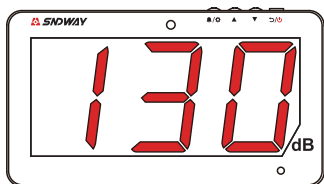


仪器报警

1.报警开关

默认开启报警功能。短按 /  键关闭报警, 红色灯熄灭;
再短按 /  键开启报警, 红色灯点亮。仪器出厂默认报警开,报警开关设置后, 将会保存, 下次开机将会以上次设置的值开机。

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，红色灯闪烁；
- 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分钟结束后或者短按任意按键，仪器停止声响，屏幕不闪烁，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2分钟，声音为3档。用户可自行调整，报警时间可调范围为:6s~120s，报警声音大小分3个等级1~3，3为最大声音。具体操作请参考《系统设置》。

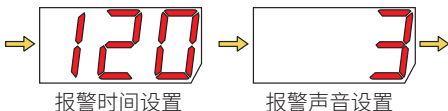
存储数据(仅525B/525C/525D/525G有)

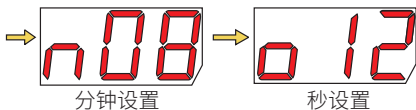
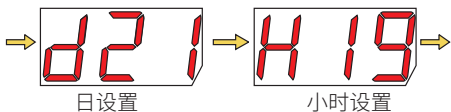
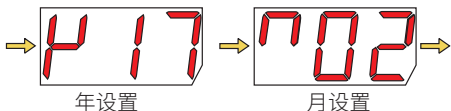
仪器每2s自动存储一次数据，存储的值为2s中最大的噪音值。仪器可连续存储一年时间，一年时间到后，仪器自动清空半年前的数据。用户可通过电脑软件导出记录。

清除记录(仅525B/525C/525D/525G有)

在关机状态下，按住 / 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





注:仅525B/525C/525D/525G有年/月/日/时/分/秒设置

系统设置参数包括:报警值、报警时间、报警类型、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->报警类型->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。

连接电脑(仅525B/525C/525D/525G有)

仪器提供电脑应用程序,可通过USB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,用户在使用前,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连接线。
- (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:更换USB接口。
- (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,故清洗时,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 laws when it's scrapped.
- ◆ When Sound Level Meter is out of work or user does not know how to use it, please contact the local dealers or manufacture.

1、 Before Using

Packing List

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

No.	Description	Unit	QTY	Remarks
1	Wall-mounted Sound Level Meter	PC	1	
2	USB Cable	PC	1	
3	User Manual	PC	1	

Introduction

This Sound Level Meter is a versatile device for measuring sound intensity in an acoustic environment—loud or soft; high pitched, low-pitched, or broad-band; intermittent or continuous. This meter can be used in measuring noise of various occasions and appliances such as factory, office, home, traffic route, acoustics, air-condition, refrigerator, etc.

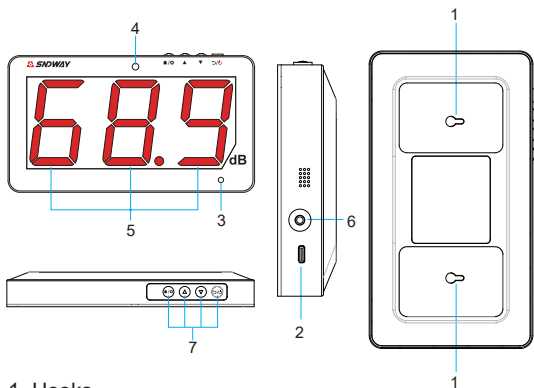
Features and Functions

1. Accuracy: $\pm 1.5\text{dB}$ (In Standard sound: $94\text{dB}@1\text{KHz}$)
2. Range of Measurement: 30 ~ 130 dB
3. Frequency Response Range: 31.5 Hz ~ 8.5 KHz
4. Frequency Weighting: A (Ambient Noise) Weighting

5. Response: Fast

6. Connecting computer with USB cable, you can download records, collect samples and print chart and data.
(Only for model 525B / 525C / 525D / 525G)

Parts Name



1. Hooks

2. USB interface

3. Alarm light

4. Microphone sensor

5. Display: 3 digital tubes display sound values

6. Alarm outlet: for external horn connection. This product is not equipped with a horn, please purchase by yourself. It is recommended to use 3.5mm two or three headphone plugs and 6-12V alarm horn, as shown below:



7. Buttons

Buttons	Description	Specification
	Power ON/ OFF key	Short press for power on, hold for power off.
	Down key	Short press for reducing value while setting, hold for continuous reducing
	Up key	Short press for increasing value while setting, hold for continuous increasing
	Alarm ON/ OFF key	Short press for ON/OFF alarm, hold for setting

Technical Parameters

Description	SW-525A	SW-525B	SW-525C	SW-525D	SW-525G
Screen	Red display		White display	Red display	Green display
Built-in spare Li-ion	x		4000mAh 3.7V Li-ion		
Battery Life	x		About 7 hours	About 10 hours	About 7 hours
Storage function	x	2 s/set, store for 1 year			
Communication	x	connecting computer with USB cable			
Power supply	DC5V 2A Type-C USB interface				
Measuring range	30~130dB				
Accuracy	±1.5dB(In standard sound: 94dB@1KHz)				
Frequency range	31.5 Hz~8.5 KHz				
Frequency weighting	A				
Response time	FAST				
Microphone	6mm capacitive microphone				
Display	3 digits				
Resolution	0.1dB (<100dB) 1dB (>100dB)				
Alarm prompt (sound + display)	√				
Alarm output	√				
Operating temperature /Humidity	0~40°C; 10%~80%RH				
Storage temperature /Humidity	-10~60°C; 10%~70%RH				
Dimension	228x125.5x32mm				

Notes & Warning

- ◆ Do not use Meter in high temperature and high humidity environment.
- ◆ Do not use Meter near corrosive material.
- ◆ Do not use Meter in the conditions that may be splashed by water.
- ◆ Do not use Meter in heavy dust environment
- ◆ Do not use Meter in an environment with chemical gas.

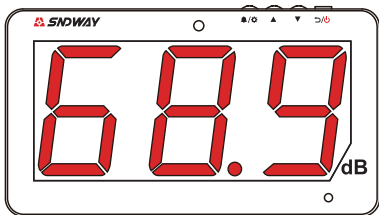
2、Instructions

Power ON/OFF

Press  to turn on the device, long press  to turn off the device;

Auto Power On: The device can start automatically when it is connect to the power. If user turn off the device by press , connect to the power after 2minutes, it can only start automatically again.

It needs 2s to enter measuring mode after power on.
Sound level is shown in the display.



Alarm

1. Alarm Switch

Turn on alarm function by default when the meter leaves the factory.

Press / button to turn off alarm and the red light off;

Press / button to turn on alarm and the red light on.

The alarm switch can be set, it will take the setting as the default when start the meter next time.

2. Setting Alarm Value



The default alarm value is 130dB. Users can adjust it from 50 to 130dB

1) Press button / for a while into alarm setting, then it displays the alarm values and the red light blinks.

2) Press the buttons   to adjust the alarm value and press buttons   for a while to set up continuously.

3) Press button / to save alarm value or press power switch shortly to cancel setting to normal measuring condition.

Notes: It will enter alarm time setting when press button /⚙️ in shortly. Users can press button /⏻ shortly to return to measuring condition.

3. Alarm Function (Sound + Display)

When the measuring value is over the alarm value, the meter will make a sound beeping and lock the data with blinking for 2 minutes. After 2 minutes or press any key, the Meter stops alarm-ing and blinking, but also locks the measure data for 5 seconds. After 5 seconds, The Meter return to normal measurement. Notes: If the measuring value is over the alarm value again when it's back to normal measurement, the Sound Level Meter would alarm once again.

NOTES: The device will start alarm again, if the first result is still beyond the alarm value when it return to normal measurement.

4. Alarm Time & Volume

The default time of alarm is 2 minutes, volume is 3. User can adjust the time between 6s to 120s, and volume 1 to 3, 3 is the Maximum. Please check system setting for operation details.

Data Records (Only for 525B/525C/525D/525G)

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.

Clear Records (Only for 525B/525C/525D/525G)

In the off state, press and hold / and / to start, and then release the two keys when “r” is displayed. At this point, when “r” disappears and the noise value is displayed, the record is cleared.

System Settings



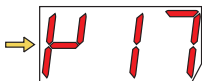
Alarm Value



Alarm Time Setting



Alarm Volume Setting



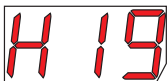
Year Setting



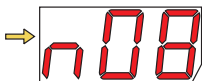
Month Setting



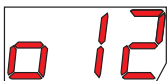
Day Setting



Hour Setting



Minute Setting



Second Setting

NOTES: Settings of Year/Month/Day/Hour/Minute/Second are just available for 525B/525C/525D/525G.

System setting parameter including: Alarm value, Alarm time, Alarm volume, Year, Month, Day, Hour, Minute, Second. Long press button / for alarm value setting (Refer to <Instrument alarm>).

System Settings operation as follows:

- 1) Press  button to adjust the parameters; Hold it for continuous adjustment.
- 2) Short press / button to save data and set the next batch of parameters (Alarm value->Alarm time ->Alarm volume->Year->Month->Day->Hour->Minute ->Second).
- 3) If you don't want to save data, please press  button to return back to normal measuring.

Connecting Computer (Only for 525B/525C/525D/525G)

Decompress the software installation package NOISEMETER.rar. Open the folder of "Installation and Operation Instructions", and read carefully. With the software, the user can connect the device to computer with USB to download records, real-time sampling, print chart and data, etc.

Noise Meter.rar is software files package. Please extract it to install the software or start the software directly. Please read the <Installation and Operation Instruction> carefully before use.

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、 Other Instructions

Common Problems

1.No display

- (1) Press the power ON/OFF switch again.
- (2) Try the other USB cable to connect computer.
- (3) Try the other power adapter.

2.No signal when connecting computer

- (1) Try the other USB cable.
- (2) Replace the computer USB outlet.
- (3) Be applicable to the systems of Windows Xp,Win7, Win8,Win10 only.
- (4) Send the Meter back to factory to check its USB outlet.

Instrument Maintenance

1. Surface Cleaning

Clean the Meter with wrung-out wet cloth. Do not use the alcohol, alcohol diluent or corrosive chemical liquid to clean the Meter.

Attached 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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