

数字式噪音计

LD353

使用说明书



噪音计可适用于噪音工程, 品质控制, 健康防治及各种环境噪音测量。如工厂、办公室、交通道路、家庭、音响等各种场合的噪音值测量。

一、功能说明

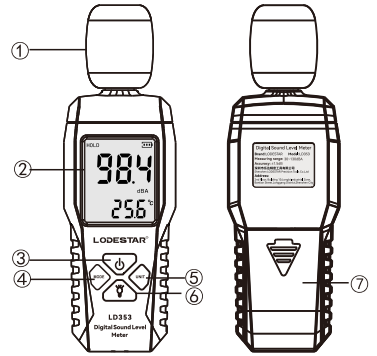
此产品是高精度噪音计, 精度可达±1.5dB

- 1.测量范围30dB~130dB。
- 2.A加权特性。
- 3.最大值和最小值功能。
- 4.锁定数据。
- 5.手动或自动关机功能。
- 6.温度单位转换。

二、规格

| 技术参数 | |
|--------|----------------------------|
| 测量范围 | 30~130dBA |
| 精确度 | ±1.5dB(在参考音源94dB@1KHz的条件下) |
| 频率加权特性 | A加权 |
| 频率响应 | 31.5Hz~8.0KHZ |
| 取样频率 | 2次/秒 |
| 最大/最小值 | MAX/MIN |
| 数位显示 | 4位数 |
| 分辨率 | 0.1dB |
| 温度测量范围 | -10°C~50°C(14°F~112°F) |
| 精确度 | ±2°C |
| 分辨率 | 0.1°C |
| 麦克风 | 1/2英寸电容式麦克风 |
| 电源 | 3x1.5V AAA电池 |

三、各部位名称和功能



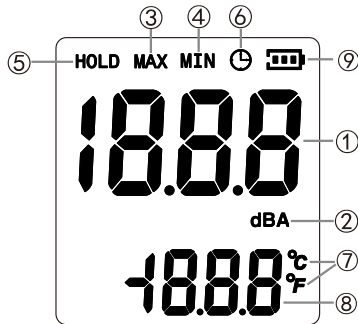
- ① 麦克风及防风球
- ② LCD显示屏
- ③ 开关机按键
- ④ 最大值、最小值、数据锁定按键
- ⑤ 单位转换按键
- ⑥ 背光灯控制按键
- ⑦ 电池盖

四、校正方法

*请使用94dB@1KHz标准音源

- 1.开启噪音计, 等噪音计正常工作后即可开始校准
 - 2.将麦克风头小心插入标准音源孔内
 - 3.打开标准音源开关, 使用一字批调整开圆孔处的电位器使LCD显示为94.0
- *本产品出厂前已经调校好, 建议校正周期为一年

五、LCD显示说明



- ① 噪音值显示
- ② 噪音单位(A加权)
- ③ 最大值
- ④ 最小值
- ⑤ 数值锁定符号
- ⑥ 定时关机符号
- ⑦ 温度单位
- ⑧ 温度值显示区
- ⑨ 电量符号

六、操作前准备事项

- 1.使用前, 请您打开产品背面的电池盖正确装上3节1.5V AAA电池。
- 2.盖好电池盖并使用。
- 3.当电量符号显示[]时,表示此时电池电压已经不够用, 请更换新电池再继续使用。

七、操作步骤

- 1.开机:按下电源开关[]开机,LCD全屏显示1秒后进入测量状态, 此时显示的噪音值就是当前环境内的噪音大小。

- 2.最大值/最小值/锁定数据:在测试状态下短按[MODE]键一下, 可在最大值和最小值、正常测量锁定数据之间切换。
- 3.温度单位转换:在正常测量状态下,短按[UNIT]键,进入温度单位模式,[°C/°F]之间转换。

- 4.自动与手动关机设置:在测量正常状态下长按[MODE]键不放持续3秒, 进入自动与手动关机设置画面, 短按[UNIT]键进行手动关机[APO.OFF]与自动关机[APO.ON]之间的选择,选择完成后, 再长按[MODE]键保存并退出设置界面。

- ① 设置选择[APO.ON]模式, 启用定时自动关机, 保存后, LCD界面显示时钟符号, 在测量状态下, 无任何按键操作5分钟后, 自动关机。
- ② 设置选择[APO.OFF]模式取消定时自动关机, 保存后, LCD界面无时钟符号, 需要手动关机。
- 5.关机:在正常测量状态下长按[]键直至LCD关闭即可关机。
- 6.背光灯:短按[]一下背光灯开,再短按一下[],背光灯关。

八、注意事项

- 1.请勿置于高温, 潮湿的地方使用。
- 2.环境噪音必须低于被测物体的噪音才可以正常测量。
- 3.长时间不使用请取出电池, 避免电解液漏出损伤本产品。
- 4.在室外测量噪音的场合, 可在麦克风头上装上防风球, 避免麦克风直接被风吹到而测量到其它的杂音。
- 5.使用环境条件:相对湿度≤80%RH, 工作环境温度0~40°C。

特殊声明:

- a.旧电池须按照地方法律和规则来处理!
- b.本公司保留对本产品设计规格及说明书内容的更新和修改权利, 若有变更, 恕不另行通知!



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DIGITAL SOUND LEVEL METER

LD353
User Manual



1

Introduction

Sound Level meter are widely used in noise engineering work, quality control, health care and other environmental measurement. For example, science and industry, application included used in homes, offices, school businesses, road construction etc.

1.Features

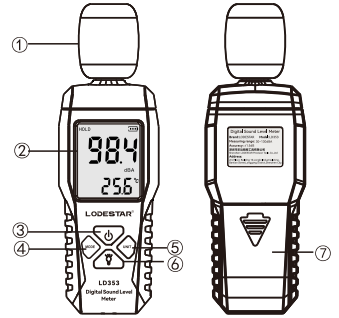
- This instrument is high precision sound level meter, accuracy up to +/- 1.5dB.
- 1)Measurement range :30~130dB.
- 2)Frequency weighting :A weighting
- 3)Maximum and Minimum value hold function.
- 4)Data Hold function.
- 5)Auto or manual power off function.
- 6)Temperature Unit(°C/°F)selection function

2.Specification

| Specification | |
|-------------------------------|---|
| Measure range | 30~130dBA |
| Accuracy | +/- 1.5dB(reference SPL point at 94dB@1KHZ) |
| Frequency Weighting | A weighting |
| Frequency range | 31.5Hz~8.0KHZ |
| Sampling rate | 2 times/second |
| Data Hold | Maximum and Minimum hold |
| Digital display | 4 digit |
| Resolution | 0.1dB |
| Temperature measurement range | -10°C~50°C(14°F~122°F) |
| Accuracy | ±2°C |
| Resolution | 0.1°C |
| Microphone | 1/2 inch Electret Condenser Microphone |
| Power supply | AAA size battery X 3 pcs |

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3.Outlook of this unit



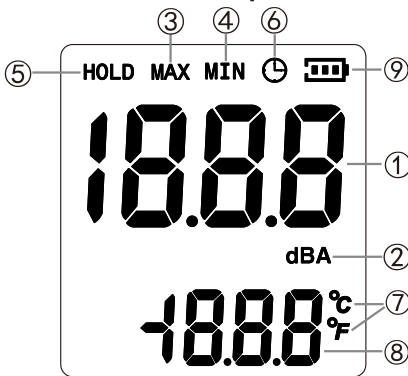
- 1)ECM microphone and wind shielding ball
- 2)LCD display panel
- 3)Power On/Off key
- 4)Minimum and Maximum value hold key
- 5)Temperature unit (°C/°F) key
- 6)Backlight function control
- 7)Battery door.

4.Calibration Method

- *Please calibrated the unit with 94dB@1KHZ calibrator.
- 4.1)Turn on the unit, after it go to normal measurement, start the calibration.
- 4.2)Insert the 1/2inch ECM microphone into the hole of the caibrator.
- 4.3)Turn on the power of sound calibrator, push the selector to 94dB,insert a screw driver to the calibration hole until touch the trimmer, adjust it until get the value of the screen shown 94.0 dB.
- *This unit have be calibrated before ship out, recommended calibrate the unit once per year

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5.LCD screen description



- 1. SPL value reading
- 2. SPL unit (A weighting)
- 3. Maximum value
- 4. Minimum value
- 5. Value hold
- 6. Timer icon
- 7. Temperature unit.
- 8. Temperature reading
- 9. Battery Power icon

6.Preparation before use this unit

- 1.Before use, please open the battery door that located at the back of the unit. Insert three pieces AAA size battery into this compartment with correct polarity.
- 2.Close the battery door.
- 3.If you find the battery power indictor become empty [] , please replace new battery to sure it work fine before use again.

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7.Operation Instruction

- 1.Power On: Depress [] key, turn on the unit power, you should find all the LCD segment on for 1 second then the unit go to normal sound level measurement mode, the reading is the current environmental sound pressure leve.
- 2. Data Hold (Minimum and Maximum Value):At normal measure mode, Depress [MODE] key, frozen the data value with Minimum, Maximum and real time value in sequentially, screen will show "Hold" icon along with "MAX" or "MIN" icon, depress [MODE] Key again will release the hold function and "Hold" icon disappear.
- 3.Temperature unit selection(°C/°F)
At normal measure mode, Depress [UNIT] key you can select°C/°F sequentially.
- 4. Auto or Manual power off setup: At normal measurement mode, depress[MODE]key more than 3 seconds, unit will go to "Auto" or "Manual" power off screen, depress [UNIT] Key to select "Auto" APO.OFF or "Manual" APO.ON mode in sequentially. Then briefly press the "MODE" button to save and exit the settings interface.
- 4.1 If you selected " APO.ON " mode that means auto power off selected, LCD screen shown " " icon, if no any key in detected, unit will power off after 5 minutes.
- 4.2 If you selected "APO.OFF" mode, that means you must turn it off by yourself, LCD screen no " " icon show, please turn it off by depress [] key
- 5. Power Off: At normal measurement mode. depress[]key until LCD screen off, then unit off.

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- 6.Backlight: Short press [], the backlight is on, and then short Click [] to turn off the backlight.

8.Special Notice

- a)Please don't store it at high temperature or high humidity environment.
- b)The environmental sound level pressure must be lower than the measured sound source.
- c)Please don't store it at high concentration salt or high sulfur environment.
- d)If don't use the instrument for a long period please take off the battery to prevent leakage of battery.
- e)If measure sound pressure level at out door, please cover the wind shield ball on top of the ECM microphone.
- f)Measurement environmental temperature and humidity range: Temperature range 0~40°C, Humidity range: ≤80% RH

Special Announcement

Our company reserved the right to change the design and the user manual without prior notice to the end user.



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