



Model No.: SPL-8810

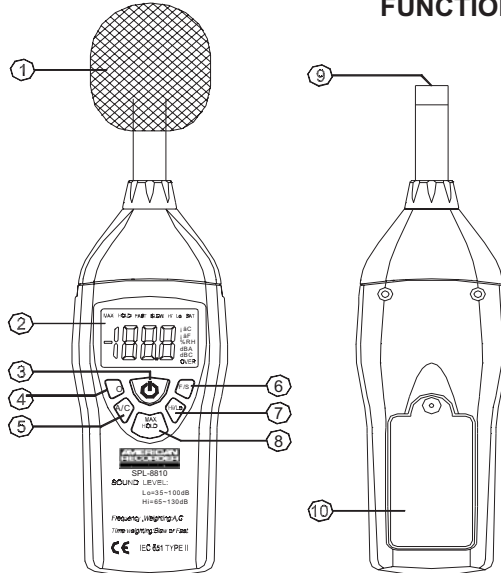
SOUND PRESSURE LEVEL METER

This unit conforms to the IEC651, ANSI S1.4 type 2 for sound level meters and has been designed to meet measurement requirements of sound engineers, musicians, health and industrial safety engineers for sound quality control in various environments and applications. This meter utilizes the latest in precision electronics for accuracy and is double reinforced and insulated for added protection.

SAFETY INFORMATION

Use this meter only as specified in these instructions. No internal user serviceable parts. Repairs or servicing should only be performed by qualified personnel or factory. Periodically wipe the case with a dry cloth. Do not use abrasives or solvent on this instrument. Avoid excessive exposure to elements or sudden impact, damage may occur. Keep out of the reach of children.

FUNCTION & SYMBOLS

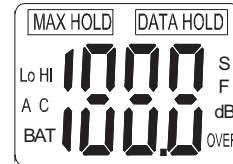


1. Windscreen

Operate at wind speeds over 10m/sec.

2. Display:

SYMBOL	FUNCTION
LCD	4 digits
MAX	Maximum Value hold
OVER	Over range
F	Fast response
S	Slow response
A	A-Weighting
C	C-Weighting
Lo	Low Range (30~100dB)
Hi	High Range (60~130dB)
BAT	Low-Battery



3. Power ON/OFF button (1)

Turn the meter power ON/OFF

4. Back light Button: (2)

Turn the meter back light ON/OFF

MAX Hold button (MAX HOLD)

The max. Hold position is used to measure the maximum level of sounds. The maximum measured level is up dated continuously. Press once again the button, will release the hold and allow a further measurement.

5. A-weighting/C-weighting select button (A/C)

A: A Weighting. For general sound level measurements.

C: C Weighting. For checking the low- frequency content of noise.(If the C-Weighted level is much higher than the A-Weighted level, then there is a large amount of low-frequency noise)

6. Time weighting select button (F/S)

F (fast response): for normal measurements (fast varying noise)

S (slow response): for checking average level of fluctuating noise

7. Level range select button (Lo/Hi)

Lo: 30~100dB; Hi: 60~130dB

When "OVER" is indicated, the ranges switch to another range for measurement.

8. MAX/ Hold button (MAX HOLD)

The max. Hold position is used to measure the maximum level of sounds. The maximum measured level is up dated continuously. Press once again the button, will release the hold and allow a further measurement. Data Hold button: Press and hold the Button for over 2 second to turn on or off data hold function. The hold function freezes the reading in the display.

9. Microphone

1/2 inch Electret Condenser microphone

10. Battery Cover

MEASUREMENT OPERATION

- (1) Open battery cover and install a 9-volt battery in the battery compartment.
- (2) Turn on power and select the desired response Time and weighting. If the sound source consists of short bursts or only catching sound peak, set response to FAST. To measure average sound, use the slow setting. Select A- weighting for general noise sound level and C-weighting for measuring sound level of acoustic material.
- (3) Select desired Level
- (4) Hold the instrument comfortably in hand or fix on tripod and point the microphone at the suspected noise source, the sound pressure level will be displayed.
- (5) When MAX (maximum hold) mode is chosen. The instrument captures and holds the maximum noise level for a long period using any of the time weighting and ranges.
- (6) When HOLD (data hold)mode is chosen. The hold function freezes the reading in the display. Press the HOLD button momentarily to activate or to exit the HOLD function
- (7) Turn OFF the instrument when not in use.

ADDITIONAL INFORMATION

- Always remove battery from instrument if stored for an extended period of time.
- Do not store or operate in high temperature or high humidity environment.
- Keep microphone dry and avoid severe vibration.
- This instrument is precision calibrated before shipment. Calibration is recommended every one to two years and can be performed with a standard acoustic calibrator (94db, 1kHz sine wave). Calibration potentiometer is located behind the battery.

OSHA Sound Exposure Limits Before Permanent Hearing Loss	
Exposure Time	Exposure Level
8 HOURS	90 DB SPL
6 HOURS	92 DB SPL
4 HOURS	95 DB SPL
3 HOURS	97 DB SPL
2 HOURS	100 DB SPL
1.5 HOURS	102 DB SPL
1 HOURS	105 DB SPL
.5 HOURS	110 DB SPL
<.25 HOURS	115 DB SPL

Standard Applied: IEC651 type 2, ANSI s1.4 type 2
Frequency Range: 31.5Hz~8KHz
Measuring Level Range: 35~130dB
Frequency Weighting: A/C
Microphone: 1/2" electret condenser
Accessories: Windscreen
Calibration: Electrical calibration with the internal oscillator (1kHz sine wave)
Display Type: LCD
Display Digits: 4
Display Resolution: 0.1dB
Display Up Data: 0.5 sec.
Time Weighting: FAST (125ms), SLOW (1 sec.)
Level Ranges: Lo: 35-100dB; Hi: 65-130dB

Accuracy: 1.5dB (under reference conditions)
Alarm function: "OVER" is show when input is out of range
Maximum Hold: Maximum value with decay <1dB/3 minutes
Power Supply: single 9v battery, 006P or IEC 6F22 or NEDA 1604.
Power Life: 50 hours (alkaline battery)
Operations Temperature: 0 to 40 C (32 to 104 F)
Operation Humidity: 10 to 90% RH
Operation Altitude: 2000 meters (6560 feet)
Storage Temperature: -10 to 60 C (-14-140 F)
Storage Humidity: 10 to 75% RH
Dimensions: 210(L)x55(W)x32(H)mm
Weight: 7 ounces (with battery)

CE Comply with EMC

SPECIFICATIONS

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