REED

Model R8060
Sound Level Meter

Instruction Manual

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Safety

Read the following safety information carefully before attempting to operate or service the meter. Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

- Repairs or servicing not covered in this manual should only be performed by qualified personnel.
- Periodically wipe the case with a dry cloth. Do not use abrasives or solvents on this instrument.
- Use the included Windscreen to eliminate wind blowing across the microphone, which can cause inaccurate readings.
- Calibrate this meter before use if it hasn't been used in a long period of time or if was previously under extreme conditions.
- Do not store or operate this instrument in high temperature or high humidity environments.
- Keep the microphone dry and avoid severe vibrations.

Features

- Meets IEC 61672-1 Class 2 requirements
- 60dB dynamic space in each range
- Fast/Slow time weighting
- "A & C" frequency weighting
- Min/Max function
- Low level battery indicator
- Analog digital bargraph
- Tripod mount design for long term monitoring
- Includes Windscreen, Battery and Hard Carrying Case

Specifications

Standard Applied:	IEC61672-1 Class 2
Frequency Range:	20Hz to 8KHz
Measuring Level Range:	32 to 130dB
Frequency Weighting:	A / C
Microphone:	½ inch electret condenser microphone
Digital Display:	4 digits
Analog Display:	30 segment bargraph
Resolution:	Digital: 0.1dB Analog: 2dB
Sample Rate:	Digital: 0.5 sec. Analog: 100 mS
Time weighting:	FAST and SLOW
Level ranges:	Lo: 30 to 90 dB Med: 50 to 110 dB Hi: 70 to 130 dB
Accuracy:	±1.4dB (under reference conditions)
Dynamic Range:	60 dB
Alarm Function:	OVER and UNDER range alarm functions
AC Output:	1 Vrms at FS (full scale) FS: means the upper limit of each level range
DC Output:	10mV/dB
Power Supply:	One 9V battery, 006P or IEC 6F22 or NEDA 1604
Battery Life:	Approx. 50hrs (alkaline battery)
Operating Temperature:	0 to 40°C (32 to 104°F)
Operating Humidity:	10 to 90%RH

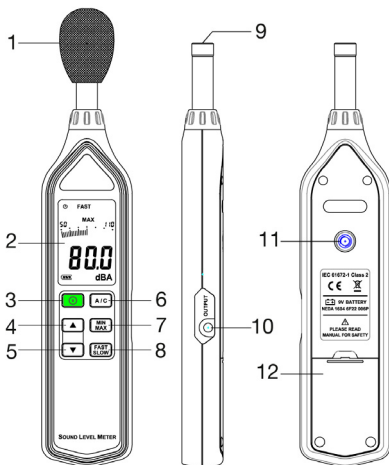|	
Storage Temperature:	-10 to 60°C (14 to 140°F)
Storage Humidity:	10 to 75%RH
Dimensions:	258 × 55 × 25mm (10.2 × 2.2 × 1.0")
Weight:	Approx. 185g (6.5oz)
Optional Accessories:	R8090 Acoustic Calibrator
	SB-01 Windshield Ball
	BS-6 Tripod

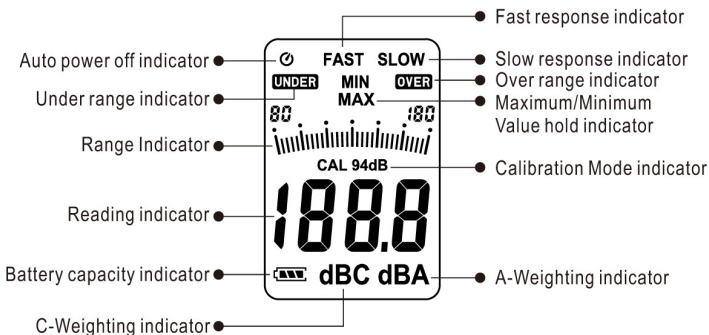For service on this or any other REED product or information on other REED products, contact REED Instruments at info@reedinstruments.com

Instrument Description

1. Windscreen
2. Display
3. Power Button
4. Up Arrow
   (Level Range Increase)
5. Down Arrow
   (Level Range Decrease)
6. Frequency Weighting
   Button
7. MAX / MIN Hold Button
8. Time Weighting Button
9. Microphone
10. AC/DC Output Terminal
11. Tripod Mounting Screw
12. Battery Cover

Display Description

Auto power off indicator
Under range indicator
Range Indicator
Reading indicator
Battery capacity indicator
C-Weighting indicator

Fast response indicator
Slow response indicator
Over range indicator
Maximum/Minimum Value hold indicator
Calibration Mode indicator
A-Weighting indicator

Operating Instructions

1. Turn the Meter on by pressing the Power Button.
2. Press the Time Weighting Button to select the desired Response Time. If the sound source consists of short bursts, set the response to FAST. To measure average sound level, select SLOW.
3. Press the Frequency Weighting Button to select the Frequency. Select "A" Weighting for a general noise sound level, or "C" Weighting for measuring sound levels of acoustic material. If the "C" Weighted level is much higher than the "A" Weighted level then there will be a large amount of low-frequency noise.
4. Press the Up and Down arrows to increase or decrease the level from a "Lo" to a "Hi" range.
5. Point the Microphone towards the noise to take a measurement.

Max/Min Hold

Press the MAX / MIN Hold Button to start Maximum and Minimum Measurement mode. Be sure to have the proper Level and Response selected before you enter Max/Min mode.

1. Press the Max / Min Hold Button once to select the MAX value
2. Press the button again to select the MIN value
3. Press the button again to select the current value, which will also make the "MAX MIN" symbol blink on the display
4. Press and hold the Max / Min Hold Button to exit

Auto Power Off

By default, when the meter is powered on, it is under auto power off mode. The meter will turn itself off after 30 minutes of inactivity. To turn this function on and off, while the meter is powered down press and hold the Time Weighting Button, then turn the meter on.

Calibration Procedures
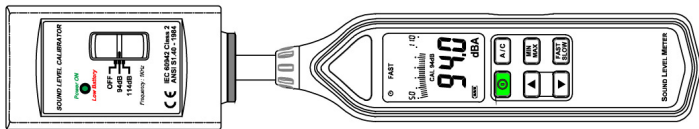
1. While the meter is off, press and hold the MAX / MIN Button.
2. Power on the meter, and CAL 94dB will appear on the display.
3. Insert the microphone carefully into the calibrator.
4. Press the Up and Down Buttons to increase and decrease the number on the display.
5. Press the MAX / MIN Button to finish. To abort during a setup process press the Power Button.

Battery Replacement

When operating the unit on batteries, periodically check the Battery Indicator on the display. When there are no more bars on the Battery Indicator you will need to replace the batteries. Simply remove the battery cover on the back and insert a new 9V Battery.

9V battery