

CM-80



USER'S MANUAL

CHECK MATE
SPL METER

**SOUND PRESSURE
LEVEL METER**



www.galaxyaudio.com/products/CM-80



Introduction

Thank you for choosing the CM-80 Sound Pressure Level Meter. You have joined hundreds of thousands of other satisfied Galaxy customers. Since 1977 Galaxy Audio's professional experience in design and manufacturing ensure our products' quality, performance and reliability.

CM-80 Features:

1. Designed in accordance to IEC 651 TYPE 2 & ANSI S1.4 TYPE 2
2. Modern, Compact, Portable Design
3. Accuracy Up To: $\pm 1.5\text{dB}$
4. Measurement Level Range: 30dBA - 130dBA
5. MAX/MIN Hold
6. Auto Backlight Display
7. Auto Power OFF

Safety Information

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.

Environmental Operating Conditions

Altitude up to 2,000 meters (6,600 ft)
Relative humidity 80% max.
Ambient Operating Temperature 0 ~ 40°C

Maintenance & Cleaning

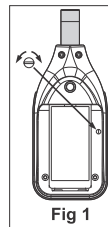
Repairs or servicing not covered in this manual should only be performed by qualified personnel. Periodically wipe the case with a dry cloth. Do not use abrasives or solvents on this instrument.

Calibration Procedures

Please use a Standard Acoustic Calibrator.

Galaxy recommends the Galaxy Audio CM-C200 SPL meter calibrator

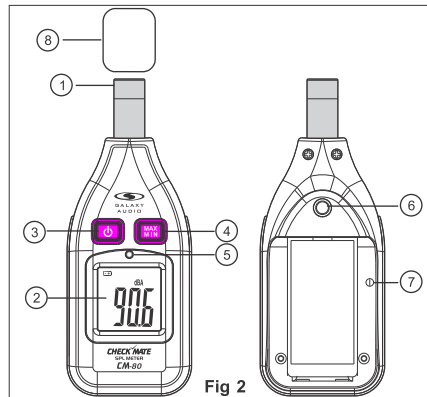
1. Turn the calibrator on and set the status to 94dB @ 1kHz.
2. Insert the mic carefully into the 1/2" hole of the Calibrator.
3. Turn the Calibrator on and adjust the Potentiometer inside the battery compartment of the unit (shown in Fig 1), until the LCD display the desired Level 94dB.



**Our products are all calibrated before Shipment.
Recommended re-calibration cycle: 1 year.

Name and Functions

1. Electret Condenser Microphone
2. LCD Display
3. ON/OFF Button
4. Maximum/Minimum Value Hold Button. (MAX/MIN)
5. Light Sensor
6. Tripod Mounting Nut
7. Potentiometer
8. Windscreen



LCD Display

1. Low Battery Indication
2. Measuring Value
3. Maximum Value Icon
4. Minimum Value Icon
5. Measuring Unit: dBA

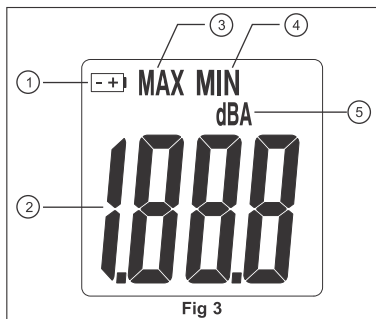


Fig 3

Before Operating

1. Open the battery door and install a 9V battery into battery compartment.
2. Place the battery cover back onto the unit.
3. When the battery life is low, "E" appears on the display. Replace with a new 9V battery. (Fig 4)

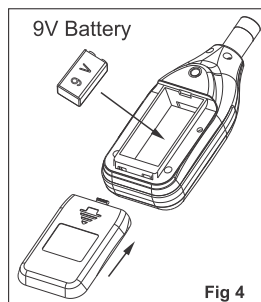


Fig 4

Operation

1. Standard Measure Mode:
Press "⏻" button to turn the unit on. The LCD will display the full screen for 1 second. It will immediately begin to measure the current sound level. The reading will continuously change according to the sound level of the current environment.
2. Max Hold:
Press the "MAX/MIN" button to enter MAX measuring mode. The measurement will lock onto the highest sound level measured until a higher sound level is measured to replace the old value with the new highest value. Press "MAX/MIN" again to enter MIN measuring mode. The measurement will lock onto the lowest sound level measured until a lower sound level is measured to replace the old value with the new lowest value. Press "MAX/MIN" again to return to normal mode.
3. Auto Backlight Display:
The light sensor will detect the light intensity of the environment automatically. When the lighting in the environment is too dim, the backlight will turn on automatically. If strong enough lighting is detected, the backlight will turn off automatically.
4. Auto Power Off:
The unit will shut off automatically in about 11 minutes. To cancel this function, press and hold the "⏻" button while the unit is off until "UOF" appears on the display, the automatic function is now turned off. The auto power off function will be turned back on once the unit has been powered off and back on again.

Caution

1. Do not operate the unit at high temperature and high humidity environments.
2. Please take the battery out of the unit if not in use for any extended period of time.
3. When making outdoor measurements, wind noise at the microphone can cause measurement errors. Such effects can be reduced by using the windscreen.

Specifications

Standard: IEC 651 TYPE 2 & ANSI S1.4 TYPE 2

Microphone: 1/2" Electret Condenser

Accuracy: ±1.5dB (under reference conditions, 94 dB @ 1 kHz)

Measuring Level Range: 30dBA ~ 130dBA

Frequency Range: 31.5Hz ~ 8kHz

Frequency Weighting: A

Display: Liquid Crystal Display

Digital Display: 4 Digits

Resolution: 0.1 dB

Display Update: 0.5 sec.

Auto Power Off: About 11 minutes

Power Supplied By: 9V Battery

Battery Life: About 30 Hours (Alkaline)

Operation Temp.: 0°C to 40°C (32°F to 104°F)

Operation Humidity: 10 to 80% RH

Storage Temp.: -10°C to 60°C (14°F to 140°F)

Storage Humidity: 10 to 70% RH

Dimensions: 5.8" x 2.24" x 1" (149 x 57 x 26 mm)

Weight: 5.08 oz (144 g) (including battery)



THREE YEAR LIMITED WARRANTY

WARRANTY Information can be viewed online at
<http://www.galaxyaudio.com/support/warranty>



www.galaxyaudio.com/support/warranty

Specifications in this manual are subject to change without notice.

For the most up to date manual and information
visit www.galaxyaudio.com. 1-800-369-7768

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