

TENMARS

Sound Level Calibrator

TM-100 User's Manual



HB2TM1000001

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I. Feature

- Setting standard sound levels at 94dB and 114dB.
- 1/2" microphone adapters provided.
- With low battery indicator.

II. Specification

- Standard: ANSI S1.40-1984 and IEC942 1988 Class2.
- Output Sound Level: 94dB and 114dB re 20 uPa under reference.
- Output Frequency: 1kHz $\pm 4\%$.
- Accuracy: ± 0.5 dB.
- Battery: 9V, 006P or IEC 6F22 or NEDA 1604.
- Low Battery Indicator: The LED indicator will off, if battery voltage low.
- Battery Life: Approx 20 hours. (Alkaline battery)
- Dimension: $\varnothing 48$ mm x 125mm
- Weight: 285g

- Operation Temperature and Humidity: 0~40°C (32~104°F), 10~70% RH.
- Storage Temperature and Humidity: -10~60°C (14~140°F), 10~90% RH.
- Test Condition
 - a. Environment Temperature: 20°C.
 - b. Relative Humidity: 65%.
 - c. Atmospheric Pressure: 1013 mbar.

III. Instrumentation

- (1) Power and output level select switch.
- (2) Cavity of Sound-Level Calibrator.
- (3) Battery cover.
- (4) Low battery indicator.
- (5) The 1/2" adapter.

IV. Test Procedure



- (1) Open the battery cover, and insert the battery in position.
- (2) Choosing a suitable adapter and plug into the Sound-Level Calibrator.
- (3) With suitable plug of microphone, and plug into the adapter all the way down of the Sound-Level Calibrator.
- (4) Turn on power switch and set sound level to 94dB or 114dB Position.
- (5) Read the level on the microphone instrument under test and adjust the sensitivity control for the correct indication of the Sound-Level Calibrator level selected in step.

V. Notice

- (1) Use the Sound-Level Calibrator as specified in this manual; otherwise, the protection provided by this meter may be impaired.
- (2) When using Sound-Level Calibrator, environment noise level should less than 10dB of output sound.
- (3) Environment conditions
 - a. Altitude up to 2000 meters.
 - b. Relative humidity up to 90%.
 - c. Operation ambient 0~40 °C (32~104°F).
- (4) Replace the battery for keep measuring correctly, if LED indicator light off.
- (5) If long time not in use, we recommend to take out the battery to decrease the battery leaking which could damage

the Sound-Level Calibrator.