

Digital Sound Level Meter Operation Manual



A. PRECAUTIONS:

Please read this operation manual carefully before using this equipment for correct operations. This equipment have been designed to meet the measurement requirement of Safety Engineers, Health, Industrial Safety offices and Sound Quality control in various environment.

B. FEATURES:

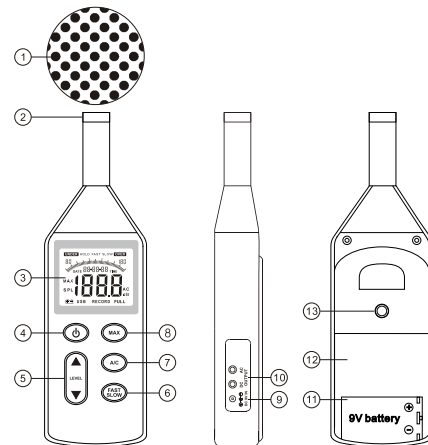
- 1) This unit was designed according to the IEC651 TYPE2& ANSI S1.4 TYPE2 for sound level meters.
- 2) Instantaneous sound measure function.
- 3) Measurement range: 30 ~130 dB
- 4) With two equivalent weighted sound pressure levels, A and C.
- 5) Fast & Slow dynamic characteristic modes.
- 6) AC and DC signed output for frequency analyzer level recorder, FFT analyzer, graphic recorder etc.

C. SPECIFICATIONS:

- 1) Accuracy: ± 1.5 dB (under reference conditions)
- 2) Frequency range: 31.5 Hz to 8.5k Hz
- 3) Linearity range: 50 dB
- 4) Measuring level: 30~130dBA, 35~130dBC
- 5) Frequency weighting: A, C
- 6) Digital display: 4 digits
Resolution: 0.1dB
Display: 0.5 secretary
- 7) Bar graph: 50 dB scale at 1 dB step for monitoring current sound pressure level display period: 50 mS
- 8) Level ranges: 30~80 dB; 50~100 dB;
60~110 dB; 80~130 dB;
- 9) Over indicate over range: Under indicate less than lower limit of the range.
- 10) AC output: 0.707 Vrms at FS output impedance approx 600 Ω

- 11) DC output: 10 mV / dB output impedance approx 100 Ω
- 12) Time weighting: Fast / Slow
- 13) Microphone: 1/2 inch electret condenser microphone
- 14) Max: Maximum hold
- 15) Power supply: 6F22 9V alkaline cells or DC 9V 100mA
Power life: About 30 hrs (calkaline cells)
- 16) Operating Temperature: 0°C to 40°C
Operating Humidity: 10% to 80% RH
- 17) Storage Temperature: -10°C to 60°C
Storage Humidity: 10% to 90%RH
- 18) Dimensions: 235(L) x70(W) x30(H) mm
- 19) Weight: 350g (including battery)

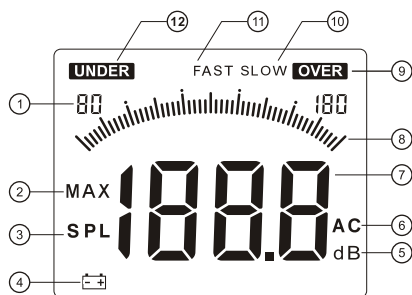
D. FRONT PANEL DESCRIPTIONS:



- 1) Sponge ball
- 2) Electret Condenser Microphone.
- 3) LCD Display.

- 4) Power switch.
- 5) Level range control switch:
30dB~80dB; 50dB~100dB;
60dB~110dB; 80dB~130dB.
- 6) Time weighting select switch.
Fast: For normal measurements.
Slow: For checking average level of fluctuating noise.
- 7) Frequency weighting select switch.
A: A- weighting for general sound level measurements.
C: C- weighting for checking the low frequency content of noise.
- 8) Maximum value hold switch. (MAX)
- 9) External DC 6V power supply terminal.
- 10) DC/AC analogy signal output jack.
- 11) Battery cover.
- 12) Underprop.
- 13) Tripod mounting screw.

E. LCD DISPLAY DESCRIPTIONS:



- 1) Level range.
- 2) Maximum value is held during measuring.
- 3) Instantaneous sound pressure level.
- 4) Low battery mark.

F. PRE-OPERATIONS:

- 1) Open battery cover and install one 6F22 9V battery in the battery compartment.
- 2) Install battery cover.
- 3) When the battery voltage drops below the operating Voltage, mark " E " appears. Please replaced with new one.
- 4) When the DC adapter is used, insert the plugs($\phi 3.5$) of the adapter into the DC 6V connector on the side panel.

G. OPERATION DIRECTION:

- 1) Turn on power button.
- 2) Select the desired response and weighting, also select desired rang.
- 3) If weighting for general noise sound level, please select dBA.
- 4) If the sound source consists of the short bursts of only catching sound peak, set response to FAST. to measuring average sound level, use the slow setting.
- 5) When MAX mode is chosen. The instrument captures and hold the maximum noise level.

H. CAUTIONS:

- 1) Do not operate the unit at high temperature and Humidity environment.
- 2) Please take out battery from unit if not in use for any extended period of time.

- 3) Once using the unit in the presence of wind, it is a must to mount the windscreen to not pick up undesired signals.
- 4) Operating Environmental condition:
Below 200 feet in Height.
Humidity $\leq 80\%$ RH.
Temperature from 0°C to 40°C.