

SPECIFICATIONS

Measurement Range: 35.0 to 95.0 dB (Low)
65.0 to 130.0 dB (High)

Resolution: 0.1

Frequency range: 20 Hz - 8 KHz

Dynamic Range: 65 dB

Frequency Weighting: A and C

Time Weighting: 1 second (Slow)
125 mS (Fast)
35 mS (Impulse)

Maximum Hold: Holds noise reading, with decay
< 1 dB/3 minutes

Microphone: ½" Electret condenser microphone

Calibration: Internal oscillator (1 KHz sine wave)

Standard: IEC 61672-1 Class 2,
ANSI S1.4 Type 2

OPERATION

1. Select the desired Response and Weighting. (See the "Response (Time Weighting)" and "Frequency Weighting (FUNCT)" sections.)
2. Slide the RANGE switch to the Lo position.
3. Point the microphone at the noise source and take the desired measurements.

Note: If "OVER" appears on the display during measurement, slide the RANGE switch to the Hi position.

4. Slide the RANGE switch to the POWER OFF position, once the desired measurements have been taken. To preserve battery life, always turn the meter off when not in use.

RESPONSE (TIME WEIGHTING)

In the F (fast) position, the meter uses a 125 mS time constant which will be ideal for most situations.

In the S (slow) position, the meter is damped and uses a 1 second time constant which smooths out fluctuating levels, minimizing brief sound spikes.

In the IMP (impulse) position, the meter utilizes a 35 mS time constant which responds very rapidly allowing measurement of short duration sound events.

FREQUENCY WEIGHTING (FUNCT)

In the A position, the meter utilizes "A-weighting" to simulate "human ear listening". When taking environmental sound level measurements, always use this setting.

In the C position, the meter utilizes "C-weighting" to provide a "flat" response. Typically this mode is suitable for checking the noise of machinery (QC check) and for measuring the sound pressure level of an item.

MAX HOLD

In the Max Hold mode, the highest sound measurement achieved is displayed. This value will update each time a new higher decibel reading is measured.

To enter the Max Hold mode, while taking measurements, press and release the MAX HOLD button (MAX HOLD will appear on the display). The display will show the maximum sound measurement achieved and will be updated when a new higher decibel reading is measured.

To exit the Max Hold mode, press and release the MAX HOLD button (MAX HOLD will no longer appear on the display). The display will show the current sound measurement.

When utilizing the Max Hold feature to attempt to capture the highest reading from short bursts of sound, make certain to set the RESPONSE switch to IMP. (See the "Response (Time Weighting)" section.)

INTERNAL CALIBRATION

The calibration mode simulates a 94.0 dB measurement by utilizing a sine wave signal of 1000 Hz generated by a built-in oscillator.

1. Slide the FUNCT switch to the CAL 94dB position.
2. Slide the RESPONSE switch to the F position.
3. Slide the RANGE switch to the Hi position.
4. Wait until the reading on the display stops fluctuating.
5. If necessary, adjust the calibration control set screw to obtain a reading of 94.0 dB.
6. Slide the RANGE switch to the POWER OFF position, to turn the meter off.

WINDSCREEN

Strong wind striking the microphone can cause incorrect readings. For measurements in windy locations, the supplied windscreen should be placed over the microphone.

TRIPOD MOUNTING

For long-term measurements, the unit can be mounted on a tripod utilizing the threaded tripod mounting socket provided on the back of the unit.

OUTPUT

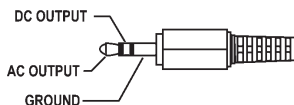
Two outputs signals may be accessed via the standard 3 pole 3.5 mm stereo phone plug. The output supplies both AC signals and log-converted DC signals.

DC Output (on intermediate)--

Logarithmic signal, 10mV/dB, Impedance 5K Ω

AC Output (on pin)--

Approximately 0.6 Vrms corresponding to each range step, impedance 5K Ω



ALL OPERATION DIFFICULTIES

If this meter does not function properly for any reason, replace the battery with a new, high quality battery (see the "Battery Replacement" section). Low battery power can occasionally cause any number of "apparent" operational difficulties. Replacing the battery with a new fresh battery will solve most difficulties.

BATTERY REPLACEMENT

An erratic display, faint display, no display, or "BT" appearing on the display are all indicators that the battery needs replacement. To replace the battery, remove the battery cover by sliding it in the direction of the "OPEN" arrow. Remove the exhausted battery and replace it with a new 9-volt alkaline battery. Replace the battery cover.

TRACEABLE[®] SOUND LEVEL METER INSTRUCTIONS