

Measuring principle

Sound level meter measures the sound level in logarithmic scale. There is a diaphragm in the microphone which responds to changes in air pressure caused by sound waves. This sound pressure is converted into logarithmic scale and displayed.

Applications

Sound level meters are commonly used in noise pollution studies for the quantification of different kinds of noise, especially for industrial, environmental, mining and aircraft noise.

Features

- Bar-graph display
- Data storage and data hold
- Measuring level selection and time weighting level selection.
- Max/min reading.
- Backlit display



Technical Specifications

Model	Metrix+ SL 4001
Microphone	Polarized capacitive microphone
Measuring range	35 ~ 135dB
Accuracy	±1.5dB(sound pressure std, 94dB @ 1KHz) +1.5dB(sound pressure std, 94dB @ 8KHz)
Frequency range	30 Hz ~ 8 kHz
Dynamic range of sound pressure	50dB
Dynamic characteristics of sound pressure	Fast 125ms, slow 1 sec
Frequency weighting	A & C
Digital display	4-digit, resolution 0.1dB, sampling rate 2 times/sec
Bar graph display	Each analog bar represents 1dB, sampling rate 20times/sec
Power	3 x 1.5V AAA battery
Size and weight	144 x 56 x 30.5 mm, 73g
Standard accessories	Main unit, manual, battery; blister packing