

# SOUND LEVEL METER



## STANDARD EQUIPMENT

- Sound Level Meter**
- Protective Case**
- Protective Windscreen**

The Sound Level Meter is more than just a noise measuring instrument. Not only does it perform all necessary measurements, but it also performs any and all verifications and calculations required by any set standard to ensure compliance with program requirements.

It is the first Sound Level Meter with integrated measurement protocols which simplifies the process to obtain required results and helps guide the user through each step of the measuring process.

It includes a large screen which displays all useful information for sound measurement in an active format so that only the necessary parameters are displayed in each application.

## DIMENSIONS

- Size: 336 x 82 x 20 mm
- Weight: With Batteries: 487 g
- Without Batteries: 438 g

## MEASURING RANGE

C-130 + PA-13 (LF, LS, LT & Lt)		
Measuring Range	A	C
Upper Limit	137	137
Lower Limit	24.8	25.8
C-250 + PA-14 (LF, LS, LT & Lt)		
Measuring Range	A	C
Upper Limit	137	137
Lower Limit	23.7	26.9
C-130 & C-250 (LPeak)		
Linear Measuring Range	55-140 dB	

## NOISE

C-130 + PA-13		
Electrical Noise	A	C
Maximum	15.7	17.1
Typical	15.0	16.3
Total Noise (Electrical + Thermal Microphone)		
Maximum	21.2	22.0
Typical	20.6	21.8
C-250 + PA-14		
Electrical Noise	A	C
Maximum	15.7	16.7
Typical	15.1	16.4
Total Noise (Electrical + Thermal Microphone)		
Maximum	18.9	20.8
Typical	18.4	20.2

## TECHNICAL DATA

### Peak Detector LPeak

Rising Time < 75 ms

### Microphone

Model C-130: Condenser Microphone

Nominal Capacity: 22.5 pF

Nominal Sensitivity: 17.5 mV / Pa

Model C-250: Pre-polarized Condenser Microphone

Nominal Capacity: 17.0 pF

Nominal Sensitivity: 46.4 mV / Pa

### Frequency Weighting

Achieves IEC 61672 Standard Class 1

Weightings A and C

### Time Weighting

LF, LS, as Class 1 Tolerances

### Parameters

Resolution: 0.1 dB

### Influence of Humidity

Operating Margin (No Condensation): 25-90%

Maximum Error for 30% <HR <90% at 40° C and 1 kHz: 0.5 dB

Storage without Batteries: <93%

### Effects of Magnetic Fields

The Sound Level Meter complies with the basic specifications of standard 61672-1 for the required immunity to the fields to the frequency of the AC Power Supply & Radio Frequency.

### Influence of Temperature

Operation Range: -10 to +50° C

Maximum Error: (-10 to +50): 0.5 dB

Storage without Batteries: -20 to +60° C

### Effects of Vibrations

Frequency: 20-1,000 Hz & 1 m/s<sup>2</sup>: <75 dB (A)

### Power Supply

Two 1.5 V AA Batteries (LR6)

Typical Duration w/Continuous Use: 14 Hours

## OPTIONAL EQUIPMENT



Type 1 Acoustic Calibrator



USB - Mini USB Cable for PC



Carrying Case



Clamping Tripod



Microphone Extension Cable

Outdoor Kit



Tripod Adaptor



Power Supply w/USB

Internet Connectivity

Custom Software

## CERTIFICATES AND STANDARDS

UNE-EN 61672-1:05 Class 1, UNE-EN 60651:96 (A1:97) (A2:03) Class 1, UNE-EN 60804:02 Type 1

EN 61672-1:03 Class 1, EN 60651:94 (A1:94) (A2:01) Class 1, EN 60804:00 Type 1

IEC 61672-1:02 Class 1, IEC 60651:01 Class 1, IEC 60804:00 Type 1

ANSI S1.4:83 (R2001) Type 1, ANSI S1.43:97 (R2002) Type 1, ANSI S1.11:04

CE Achieving Low Voltage Directive 73/23 / EEC and EMC 89/336 / EEC as amended by Directive 93/68 / EEC



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