



INTRODUCTION

Metravi SL-3010 is a stable, safe, reliable mini sound meter, widely used in noise detection, quality control, health control, environmental noise measurement in factory, traffic, home audio and other places.

GENERAL SPECIFICATION

LCD display	: 4-Digit LCD display. The maximum display is 9999.
Overload indication	: The meter shows "UN" when under range, and shows "OL" when over range.
Low battery indication	: Prompts "  "
Sampling rate	: Fast rate 1/125ms, Slow rate 1/1s
Sensor type	: 1/2 inch condenser microphone
Impact strength	: Can withstand the impact of landing from 1 meter height
Power requirement	: 1.5V batteries (AAA) x 3
Product size	: 150mm x 52mm x 27mm
Weight	: 116g

ENVIRONMENT SPECIFICATION

1. Indoor use
2. Maximum operating height : 2000m
3. Safety : EN61326-1
4. Pollution level : 2
5. Working temperature and humidity :
0°C - 30°C (not greater than 80%RH)
30°C - 40°C (not greater than 80%RH)
40°C - 50°C (not greater than 45%RH)
6. Storage temperature and humidity : -20°C - 60°C (not greater than 80%RH)

ELECTRICAL SPECIFICATIONS

- a. Accuracy : ± 1.5 dB (@1kHz Standard audio source). Calibration period is 1 year.
- b. Environment temperature : $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- c. Environment humidity : $\leq 80\%$ RH
- d. Temperature coefficient : $0.1 \times (\text{Accuracy}) / ^{\circ}\text{C}$



FAST/SLOW : Selects sampling time between Fast of 125ms to Slow time of 1s.

MAX/MIN : Records minimum and maximum Readings.

HOLD : Freezes the displayed data.

TECHNICAL SPECIFICATIONS

Function	Range	Resolution	Accuracy	Description
Sound Level	30 ~ 130dB	0.1 dB	±1.5 dB	Rate response : 31.5Hz-8KHz
Sampling Time	FAST			125ms
	SLOW			1000ms
Overload Indication				Shows "UN" and "OL"
MAX / MIN Measurement				Shows "MAX/MIN"
Data Hold / Backlight				Shows "HOLD" and turns backlight on or off
Auto Power Off				Automatically power off after 5mins without operation.
Low Battery Indication			3.0 ~ 3.5V	Shows low battery prompt when power is 3.0-3.5V
Weighting	A			



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INTRODUCTION

The function of the Sound Level Meter is to measure noise & sound in factories, schools, offices, Airports, home etc., Checking acoustics of studio, auditorium and hi-fi installations

GENERAL SPECIFICATION

- Large 3½ digital LCD display with function indication
- Wider measuring Range with High Accuracy
- Data / Max. Hold Function
- Accuracy ± 3.5 dB at 94dB sound level, 1kHz Sine Wave
- A and C weighting;
- High and Low measuring ranges: Low (35 to 100dB)
High (65 to 130dB)
- 0.1dB resolution
- Fast / slow response
- Built-in calibration check (94 dB)
- Complete with 9V battery and carrying case.
- Dimensions/Wt.: 251 x 63.8 x 40mm/250g.

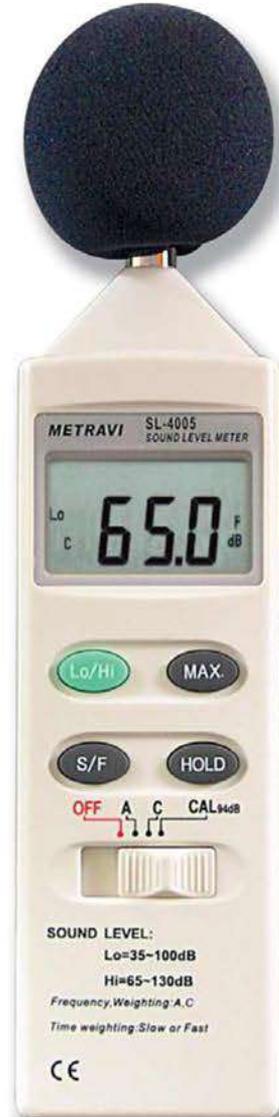
- Display** : Large 1999 counts LCD display with function of dB, A & dB, C & dB, Lo & dB, Hi & dB, MAX HOLD, DATA HOLD indication.
- Polarity** : Automatic, (-) negative polarity indication.
- Over-range** : "OL" mark indication.
- Low battery indication** : The "BAT" is displayed when the battery voltage drops below the operating level.
- Measurement rate** : 1.5 times per second, nominal.
- Storage temperature** : -10°C to 60°C (14°C to 140°F to 140°F)
@ <80% RH.

ELECTRICAL SPECIFICATION

Function	Range (Frequency Range: 30Hz to 10Kz)	Resolution	Accuracy
Sound Level (Frequency Weighting: A & C)	A LO (Low) - Weighting: 35dB ~ 100dB	0.1dB	± 3.5 dB at 94dB sound level, 1KHz sine wave,
	A HI (High) - Weighting: 65dB ~ 130dB		
	C LO (Low) - Weighting: 35dB ~ 100dB		
	C HI (High) - Weighting 65dB ~ 130dB		

Typical Instrument Frequency Range: 30Hz ~ 10kHz
Microphone: Electric Condenser Microphone

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GENERAL SPECIFICATIONS

This unit conforms to the IEC651 type 2, ANSI S1.4 type 2 for Sound Level Meter has been designed to meet the measurement requirements of safety Engineerings, Health, Industrial safety offices and sound quality control in various environemnts.

- Ranges from 30dB to 130dB at frequencies between 31.5Hz and 8 KHz.
- Display with 0.1dB steps on a 4-digits LCD
- With two equivalent wighted sound pressure levels, A and C

ELECTRICAL SPECIFICATIONS

Standard applied	IEC651 type 2, ANSI S1.4 type 2
Frequency range	31.5Hz ~ 8KHz
Measuring level range	30 ~ 130dB
Frequency weighting	A/C
Microphone	1/2 inch electrical condenser microphone
Calibration	Electrical calibration with the internal oscillator (1kHz sine wave)
Display	LCD
Digital display	4 digits
Resolution	0.1dB
Display Up data	0.5 sec.
Times weighting	FAST (125mS), SLOW (1 sec.)
Level ranges	Lo: 30-100dB Hi: 65-130dB
Accuracy	± 1.5dB (under reference conditions)
Alarm function	"OVER" is show when input is out of range
Maximum hold	Hold readings the Maximum Value, with decay < 1dB/3minutes.
Power supply	One 9V battery, 006P or IEC 6F22 or NEDA 1604.
Power life	About 50hrs (alkaline Battery)
Operation temperature	0°C to 40°C (32°F to 104°F)
Operation humidity	10 to 90% RH
Storage temperature	-10°C to 60°C (14°F to 140°F)
Storage humidity	10 to 75% RH
Dimensions	210 (L) x 55 (W) x 32 (H)mm
Weight	230g (including battery).
Accessories	9V battery, carrying case, Instruction manual.



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FUNCTIONS DESCRIPTION

This Sound Level Meter is designed for noise project; quality control; illness prevention and cure and all kinds of environmental sounds measurement. It is applied to the sounds measurement at factory; school; office; traffic access and household, etc.

- This unit confirms to the IEC61672-1 CLASS2 for Sound Level Meters.
- MAX & MIN measurements
- Over range display
- Under range display
- A & C Weighting
- FAST & SLOW response
- Analog AC/DC outputs for connection to frequency analyzer or X-Y shaft recorder

SPECIFICATION

Standard applied	IEC61672 -1 CLASS2
Accuracy	+1.4dB
Frequency range	31.5HZ ~ 8KHZ
Dynamic range	50dB
Level ranges	LO:30dB~80dB Med 50dB ~ 100dB Hi 80dB ~ 130dB Auto 30dB ~ 130dB
Frequency weighting	A/C
Time weighting	FAST (125ms), SLOW (1s)
Microphone	1/2 inch electret condenser microphone
Display	4 digits
Resolution	0.1dB
Display Update	2 times/sec.
MAX hold	Hold the Maximum reading
MIN hold	Hold the Minimum reading
HOLD	Hold the readings
Alarm function	"OVER" is when input is more than upper limit of range. "UNDER" is when input is less than upper limit of range.
Analog output	AC/DC outputs from earphone outlet AC = 1Vrms DC = 10mV/dB
Data output	USB data traffic
Power supply	One 9V battery, 006P or NEDA1604 or IEC 6F22.
Power life	About 50hours
Operation temperature and humidity	0 °C ~ 40 °C, 10% RH ~ 90% RH
Storage temperature and humidity	-10 °C ~ + 60 °C, 10% RH ~ 75% RH
Dimension	278 (L) x 76 (W) x 50(H) mm
Weight	350g
Accessories	Instruction manual, battery, screwdriver, 3.5 ϕ earphone plug, windscreen, software, USB cable, tripod and DC 9V power supply.



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