



SOUND LEVEL METER

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Environmental Research

ULTRA COMPACT

LIGHTWEIGHT

HIGH-PERFORMANCE

Sound Level Meter *NL-27*



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Features

- Compliant with Japan Measurement Law, JIS, and IEC requirements
- Wide 107 dB linearity range allows sound level measurements from 30 to 137 dB without range switching
- Easy measurement of sound level(L_p), equivalent continuous sound level(L_{eq}), maximum sound level(L_{max}), sound exposure level(L_E), and peak sound level(L_{Cpeak})
- Manual store function and capability to transfer data to a computer via optional USB adapter cable
- 9 hours operation on two AAA (IEC R03) alkaline batteries







View with Silicone cover (supplied)

Specifications

Standard compliance	General-Purpose Sound Level Meter according to Japan	Calibration	Calibration frequency: 1 kHz,
	Measurement Law JIS C 1509-1: 2017 class 2,		Calibration sound level: 94 dB
	IEC 61672-1: 2013 class 2		Japan Measurement Law: electrical calibration with internal
	CE mark, WEEE Directive		signal source; JIS, IEC: acoustic calibration using NC-74
Measurement functions	Sound level L_{ρ} , equivalent continuous sound level L_{eq} ,	Windscreen	Unit is compliant with JIS C 1509-1 class 2 and IEC 61672-1
Processing functions	sound exposure level L _E , maximum sound level L _{max} ,		class 2 with and without windscreen
(normal mode)	peak sound level L _{Cpeak} (only when peak range was selected)	Display	Numeric display: 0.1 dB resolution
Measurement time settings	1 min, 5 min, 10 min, 1 h	(TN positive display, reflective)	Bar graph: Scale range 100 dB, 5 dB resolution (update frequency 0.1 s
Microphone	1/2 inch electret condenser microphone		Warning indicators: Over (Overload) appears at 137.4 dB
	Model: UC-52,		(1 kHz) Under (Underload) appears from -0.6 dB of lower scale
	sensitivity level: -33 dB ± 3 dB (re.1 V/Pa)		limit Battery capacity 3-stage indicator for remaining capacity
Measurement level	A-weighting: 30 dB to 137 dB,	Store function	Number of data: 199
range (normal mode)	C-weighting: 36 dB to 137 dB	(processing results saved in internal	Stored data can be checked on recall screen
Linear operation range	30 dB to 137 dB	memory, using manual store)	
(A-weighting, 1 kHz)		DC output connector	DC output: 3 V (full scale), 25 mV/dB, output impedance: 50 Ω
Peak sound level	65 dB to 140 dB		Load impedance: 10 kΩ or more
measurement range		AC monitor output	AC output: 1 Vrms +600 -400 mVrms (at 110 dB), overload: +2 dE
Residual noise level	A-weighting: max. 24 dB, C-weighting: max. 30 dB	connector	Output impedance: 600 Ω , load impedance: 10 k Ω or more,
Measurement frequency	20 Hz to 8 kHz		frequency weighting: Z-weighting
range		USB connector	For transfer of stored data to a computer, using optional USB adapter cable
Reference frequency,	Reference frequency: 1 kHz,	Power requirements	Current consumption: approx. 80 mA (3 V operation)
reference sound pressure level	reference sound level: 94.0 dB	(size AAA [IEC R03] battery x 2	Battery life: approx. 9 hours (with alkaline batteries),
Frequency weighting characteristics	A-weighting, C-weighting	Normal temperature)	(Wide range) approx. 3 hours (with manganese batteries)
Time weighting characteristics	F (Fast), S (Slow)	Temperature /	-10 °C to +50 °C, 10 % to 90 % RH (no condensation)
Level range	Wide range: 30 dB to 130 dB, peak range*: 65 dB to 130 dB	humidity range for operation	
	* Peak range is used for peak sound level measurements	Dimensions, weight	Approx. 120 mm (H) × 63 (W) × 23.5 mm (D), approx. 105 g (including batteries
RMS detection method	Digital processing	Supplied accessories	Windscreen × 1, Windscreen fall prevention rubber× 1,
Processing	Digital sampling cycle: 30.3 µs (Lp, Leg, LE, Lmax, Lpeak)		Silicone cover x 1, strap x 1, AAA [IEC R03] alkaline battery x 2

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