

**High-quality and cost-effective. Essential functions.  
Complies with IEC standards.**

# Sound Level Meter NL-28

**Industrial safety and health**



**General noise measurement**



**Useful for:**  
Occupational safety and health, construction, traffic, karaoke/bars, factories, schools, hospitals, car inspections, HVAC, etc.

**Easy-to-read OLED display**



⟨Actual size⟩

Easy to use with one hand. The non-slip design makes it easy to grip. Button layout provides intuitive operability.



**NEW** Equipped with USB Type-C connector



By connecting the USB Type-C connector and PC with a cable, data measured with the NL-28 can be acquired as a CSV file.

**NEW** Automatic calibration function

- Convenient for sound calibration before and after measurement. Insert the microphone into the acoustic calibrator and calibration is performed automatically.
- Calibration history data can be stored.



■ Conforms to IEC 61672-1:2013 class 2, JIS C 1509-1:2017 class 2, JIS C 1516:2020 class 2

■ Pause measurement function to remove unwanted noises for measurement evaluation.

■ Continuous operation time is over 9 hours with two AA batteries (Compatible with alkaline batteries, Ni-MH rechargeable batteries)

■ At the selected time weighting, the following calculation values can be measured simultaneously.

Measurement function	A-weighting	C-weighting
Time-weighted sound level $L_p$	●	●
Equivalent continuous sound level $L_{eq}$	●	●
Maximum time-weighted sound level $L_{max}$	●	●
Sound exposure level $L_E$	●	●
Peak sound level $L_{peak}$	—	●

### Specifications

Applicable standards	IEC 61672-1:2013 class 2 JIS C 1509-1:2017 class 2 JIS C 1516:2020 class 2 CE Marking • EMC Directive Directive 2014/30/EU EN 61326-1:2013 • RoHS Directive Directive 2011/65/EU EN IEC 63000:2018 UKCA Marking, China RoHS, KC Mark
Measurement function	At the selected time weighting, the following calculation values can all be measured simultaneously at the frequency weighting A and C. (For $L_{peak}$ , only the C-weighting can be measured.)
Instantaneous value	Time-weighted sound level $L_p$
Calculated values	Equivalent continuous sound level $L_{eq}$ Sound exposure level $L_E$ Maximum time-weighted sound level $L_{max}$ Peak sound level $L_{peak}$
Microphone	Model: UC-52 Sensitivity level (representative value): -33 dB (re. 1 V/Pa at 1 kHz)
Measurement level range	A-weighting: 30 dB to 137 dB, C-weighting: 36 dB to 137 dB, C-weighted peak sound level: 65 dB to 140 dB
Self-generated noise	A-weighting: Max. 24 dB (Typical 22 dB), C-weighting: Max. 30 dB (Typical 28 dB)
Measurement frequency range	20 Hz to 8 kHz
Frequency weighting	A-weighting, C-weighting
Time weighting	F (Fast), S (Slow)
Calculation interval	$L_p, L_{max}, L_{peak}$ 20.8 $\mu$ s (sampling frequency 48 kHz) $L_{eq}, L_E$ 1 s

Calibration	A reference signal is input using sound calibrator NC-75/NC-74 or pistonphone NC-72B/NC-72A, and the signal input sensitivity is adjusted automatically or manually. Up to 999 calibrations can be managed in the calibration history and saved. * With auto-calibration, only the sound calibrator NC-75/74 can be used.
Windscreen	Conforms to IEC 61672-1 class 2, JIS C 1509-1 class 2, and JIS C 1516 class 2, even when a windscreen is attached.
Display	1.5-inch monochrome organic EL display Resolution: 128x128 Numeric value update cycle: 1 s, Bar graph update cycle: 100 ms
Store	Manually starts or stops measuring and simultaneously calculates $L_{eq}, L_E, L_{max}$ and $L_{peak}$ before recording the results in a file. Store data can be confirmed on the recall screen.
Data storage capacity	Internal memory: Can store up to 200 data sets
Measurement time	1 min, 5 min, 10 min, 1 h
USB	Internal memory can be recognized by the computer as a removable disk for data transfer.
Power supply	AA battery x2
Operating time (23 °C, measurement status)	Alkaline battery: Approx. 9 hours, Ni-MH rechargeable battery: Approx. 9 hours * The operating time with batteries will vary depending on the battery manufacturer and type (model), the usage environment of NL-28, and the measurement conditions.
Operating temperature and humidity range	Temperature: -10 °C to 50 °C Humidity: 10 % to 90 % RH (no condensation)
Dimensions, weight	Approx. 200 mm (H) x 50 mm (W) x 34 mm (D) Approx. 160 g (including batteries)
Accessories	Windscreen WS-14 x1, Windscreen fall prevention rubber x1, Hand strap x1, USB port cover x1, Size AA alkaline batteries x2
Optional accessories	Sound calibrator NC-75, Pistonphone NC-72B, Tripod for sound level meter ST-80



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