

**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



RION CO., LTD. is recognized by the JCSS which uses ISO/IEC 17025 as an accreditation standard and bases its accreditation scheme on ISO/IEC 17011. JCSS is operated by the accreditation body (IAJapan) which is a signatory to the Asia Pacific Accreditation Cooperation (APAC) as well as the International Laboratory Accreditation Cooperation (ILAC). The Quality Assurance Section of RION CO., LTD. is an international MRA compliant JCSS operator with the accreditation number JCSS 0197.

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