RION

TENTATIVE

Personal Noise Dosimeter NB-14

Workplace Noise Measurements for Industrial Safety and Health

The NB-14, personal noise dosimeter, measures noise exposure for an individual working in a noisy workplace. Dedicated software rapidly processes measurement data, displays graphs, and generate reports. Measuring and managing noise exposure for individual workers enables early detection and treatment of noise-induced hearing impairment, the adoption of personal hearing protection equipment such as earplugs and earmuffs, and the introduction of effective measures to reduce noise at the source.

Measuring and Managing Noise Exposure for Individual Workers

Easy operation

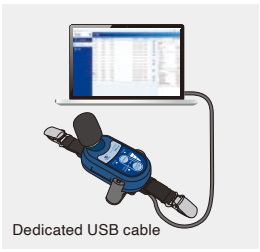
Procedure of noise exposure measurement

Automatic sound calibration (before measurement)

Attachment

Measurement

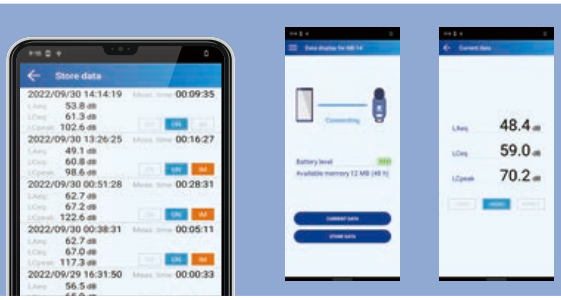
Automatic sound calibration (after measurement)

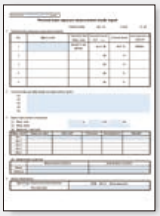


Uploading data to software (AS-05 Viewer)

Reviewing results with a mobile app

The app will be available on Google Play store.





Measurement result report is generated

Data Management Software AS-05 Viewer

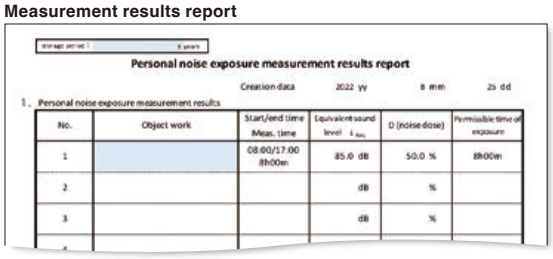
DOWNLOAD Available for free download from the RION website

The AS-05 Viewer Data Management Software reads data measured by the NB-14 Personal Noise Dosimeter into a computer for viewing measurement data and outputting reports.

Main functions

- **Device management and settings**
- **Reading data from the NB-14**
- **Viewing measurement data (can be output in CSV format)**
- **Preparation of measurement results reports (can be output as Excel files)**

Measurement results report


Personal noise exposure measurement results report

Creation date 2022 yy 8 mm 25 dd

1. Personal noise exposure measurement results

No.	Object work	Start/end time Meas. time	Equivalent sound level L_{Aeq}	D (noise dose)	Permissible time of exposure
1		08:00/17:00 8h00m	85.0 dB	50.0 %	8h00m
2			dB	%	
3			dB	%	

Specifications NB-14

Compliance	IEC 61252 : 2017, IEC 61672-1: 2013 class 2, JIS C 1509-1: 2017 Class 2, Enables measurements in compliance with ISO 9612.
Measurement functions (simultaneous measurement and processing)	Equivalent-continuous A-weighted sound pressure level L_{Aeq} Equivalent-continuous C-weighted sound pressure level L_{Ceq} C-weighted peak sound level L_{Cpeak} Dose as percentage of permissible noise level exposure limit (A-weighted sound pressure level)
Microphone	Measurement microphone (representative sensitivity: -33 dB)
Store cycle	1 s
Sound level range of measurement	Equivalent-continuous A-weighted sound pressure level 58 dB to 143 dB Equivalent-continuous C-weighted sound pressure level 58 dB to 143 dB C-weighted peak sound level 75 dB to 146 dB
Frequency range of measurement	20 Hz to 8 kHz
Display	Power status, measurement status, overload/under range detection,* and noise exposure displayed with LED illumination. *Shock detection function: When the device detects a shock exceeding the preset threshold, the LED will illuminate, and the shock vibration event will be recorded to internal memory because such shock vibrations can influence measurement results.

Internal memory	Stores data for approximately 48 hours of measurement.
Power source	Rechargeable lithium ion battery (secondary battery) Continuous operating time: ≥12 hours
Operating temperature/ humidity range	Temperature: -10 °C to 50 °C Humidity: 10 % to 90 % RH (no condensation)
Size and weight	85 (H) ×43 (W) ×22 (D) mm, Approx. 85 g (excluding attachment holder)
Dustproof and waterproof performance	IP54 (except microphone)
Accessories	Dedicated USB cable* Dedicated windscreen Alligator clip holder *Allows settings for the NB-14 to be made from a computer and transfers measurement data to the computer. The USB cable has an NB-14-dedicated connector on one end and a USB Type A terminal on the other end. A separate battery recharger (commercially available product) is required to recharge the NB-14.
Options	Sound calibrator (NC-75)

Related products

The NC-75 can be used for pre- and post-measurement calibration. Use it for day-to-day management of the NB-14.

Sound Calibrator NC-75

- **Compact and lightweight**
- **High precision**
- **IEC 60942 Annex B**

Ideal for working environment measurements at both outdoor and indoor worksites and for noise measurements of noise sources and workplace noise. Complies with IEC 60942 Annex B.

Sound Level Meter NL-27

- **Ultra compact**
- **Ultra lightweight**
- **High performance**

ilac-MRA IAJapan Accredited Calibration JCSS JCSS 0197

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