

# Sound Level Meter Nor103

The most compact Class 1 Sound Level Meter

Being light weight and extremely compact makes this the world's smallest class 1 instrument. It is extremely portable and will fit in your pocket, yet it ensures you the reliability and precision required for a class 1 measurement. The perfect all-purpose tool for simple analysis of noise at work, environmental noise and basic product noise determination. For example use Nor103 for noise measurements in bars and restaurants, during concerts and events or in your garage to check that exhaust noise from vehicles and motorbikes are within local legal limits. It has a simplified interface with only 3 function keys and a clean graphical screen displaying large fonts and a big graphical dB "speedometer". With an internal memory to store multiple results, and low power consumption, Nor103 is a reliable and easy to use tool for your noise measurements.



## Features

- Class 1 Sound Level Meter IEC61672-1, JIS C1509-1
- Wide range 30 to 137 dB RMS without range switching  
Peak range 60-140 dB
- Measure Lp, Leq, Lmax, LE and LCpeak.
- Frequency range: from 10 Hz to 20 kHz
- Frequency weighting: A and C
- Time weighting: Fast / slow
- Measurement durations: 1, 5, 10, 60 min.
- Quick start up and easy operation



Nor103 comes with a fixed preamplifier, ½" prepolarised microphone, windscreen and a windscreen fall off preventer.

It is delivered complete with an orange coloured protective silicone cover that protect against dust and dirt, and makes the instrument highly visible among ordinary workshop tools. A hand wrist strap is also included for even safer handling.

A tripod mounting thread is fitted to enable steady positioning during measurements and to follow defined setups and measurement procedures.

Nor103 lets you run measurements for up to 9 hours on two fresh AAA alkaline batteries. Its' storing capacity is 199 measurement values.

With only three buttons you control the settings, calibration, perform the measurement and scroll in the history log. Just switch on the instrument, make a calibration and press the start key to measure. Measurement parameters are automatically logged at the end of measurement. With Peak range selected also the LCpeak value will be determined and saved. Nor103 covers the most common noise check requirements and is extremely easy to operate.

## Specifications

<b>Standard compliance:</b>	Measurement Law IEC 61672-1:2013 class 1, CE mark (EMC Directive 2004/108/EC), WEEE Directive
<b>Measurement functions:</b>	Instantaneous Sound level Lp, equivalent continuous sound level Leq, Sound exposure level LE, Maximum sound pressure level Lmax C weighting peak sound level LCpeak (when peak range is selected)
<b>Microphone:</b>	1/2-inch electret condenser microphone. Model: UC-59 Sensitivity: -27 dB±2 dB (re.1 V/Pa)
<b>Windscreen:</b>	Conforms to IEC 61672-1 Class 1 also with windscreen mounted
<b>Measurement level range:</b>	Wide range: A weighting: 30 dB to 137 dB C weighting: 40 dB to 137 dB Peak range: A weighting: 65 dB to 137 dB C weighting: 65 dB to 137 dB
<b>C weighting peak sound level:</b>	68 dB to 140 dB
<b>Total range:</b>	32 dB to 137 dB (A weighting, 1 kHz)
<b>Inherent noise level:</b>	Wide range: A weighting: 21 dB or less C weighting: 29 dB or less Peak range: A weighting: 54 dB or less C weighting: 54 dB or less
<b>Frequency range:</b>	10 Hz to 20 kHz
<b>Frequency weighting:</b>	A and C
<b>Time weighting:</b>	F (fast) and S (slow)
<b>RMS detecting circuit:</b>	Digital processing
<b>Sampling frequency:</b>	40 kHz
<b>Numeric display:</b>	0.1 dB resolution
<b>Bar graph:</b>	30-130dB, resolution 5 dB, display update cycle 0.1 s
<b>Power:</b>	Uses 2 size LR03 (ANSI AAA) batteries Current consumption: Approx. 90 mA (when operating at 3 V)
<b>Environmental conditions:</b>	±10°C to 50°C, 10% to 90% RH (No condensation)
<b>Dimensions:</b>	130 mm (H) × 63 mm (W) × 23.5 mm (D)
<b>Weight:</b>	105 g (incl. batteries)

\*Preamplifier is an integrated part of instrument. Use of extension cable is not possible.