NoiseMeters
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CR310 Integrating Sound Level Meter

Features

- Calibrated Class 2 Integrating Sound Level Meter
- **LAeq** and **LCpeak** measurement
- **Fast** and **Slow** response
- **A** and **C** frequency weighting
- AC and DC outputs
- Calibration certificate included

Applications

- Noise at work assessments
- General noise surveys
- Alarm installation and testing
- Machinery noise checks

Overview

The CR310 is an **Integrating** Sound Level Meter. In addition to the usual Fast/Slow sound level measurements it provides the integrated, average sound level **Leq**. The measurement of "A" weighted Leq (or LAeq) along with "C" weighted Peak (or LCPeak) make it ideal for noise at work surveys in line with the UK regulations.

Standards

- IEC 61672 Class 2
- ANSI S1.4, ANSI S1.43, IEC 60651 and IEC 60804 to Type 2

It is essential that a sound level meter meets these standards if it is to be used for any important measurements. The CR310 meets the strict demands of the international standards and is provided with a Calibration Certificate at no extra cost, so you can make your noise measurements with confidence.

Noise Measurements

The CR310 measures the **A** or **C** weighted sound level and Leq, and the **C** weighted Peak. The sound level can be measured with either **Fast** or **Slow** time response.

For applications such as noise at work the average sound level (LAeq) is usually used as it is much better than trying to average by eye. This is also a requirement for many occupational noise regulations. For other non-integrating applications the Max Hold feature makes the measurement of the maximum sound level easier.

Outputs

An AC output and optional DC output mean this meter can be connected to a level recorder, PC equipped with an A/D converter or integrated with another data logging system.

See Specifications tab for more details about the standards and noise measurement range.

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Specifications

CR310 Integrating Sound Level Meter Specifications

Standards	IEC 61672-1:2013 Class 2 ANSI S1.4, IEC 60804, IEC 60651 Type 2
Range	30 dB (A) to 130 dB (A) 40 dB (C) to 130 dB (C)
Frequency weighting	A and C
Time weighting	Fast (F) and Slow (S)
Display functions	Sound level, maximum, minimum, C peak
Measurements	LAeq, LCeq, LAF, LAS, LCF, LCS, LCpk
Noise floor	< 25 dB (A)and 35 dB (C)
Resolution	0.1 dB
Display flags	Overload, under-range
Auto cal. range	±4.5dB
Reference point	94dB (1kHz), 92.9dB (8kHz)
Settling time	60s
Display	Backlit 128×64 LCD, resolution 0.1 dB

Electrical inputs	5V power in via mini USB
Power	2 x AA/LR6 1.5V batteries Or 5V DC via Mini USB
Battery life	24 hours
Microphone	1 D2” pre-polarised electret condenser type HY:205
Operating temperature	0°C to +40°C
Operating humidity	25% to 90%
Atmospheric pressure	65 kPa to 108kPa
Storage temperature	-20°C to +60°C
Dimensions	215 × 68 × 32 mm
Weight	220 g (including battery)
Electrical outputs	AC (Tip 3.5 mm jack) and DC (middle 3.5 mm jack)
DC output	voltage 15mV/dB, range 450mV to 1950mV
AC output	RMS 2V
Tripod Mount	1/4" Whitworth socket

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Web Sites

Main site:
https://www.noisemeters.co.uk

Product shortcut:
https://www.noisemeters.co.uk/p/cr310/

Tech Support:
https://support.noisemeters.com