CEL242 Sound Level Meter with Data Logging

Data logging and USB download

Features

- Data logging with download to computer
- Quick and easy to use
- Lightweight but rugged case
- 2 year warranty
- Calibration certificate included

Applications

- General noise measurements
- OSHA occupational noise surveys
- Fire alarm testing

Standards

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

Digital Technology and Graphical Display

Unlike most sound level meters in this price range, the CEL242 uses the latest in digital technology - models using the older analog techniques tend to drift more over time and with temperature and air pressure changes. Sampling and digitizing the signal closer to the microphone ensures a much more stable sound level meter for repeatable measurements.

The graphical display gives the option of viewing the sound level as a simple number (shown to the left) or as a graph, clearly showing the variation of noise over time (see main image).

Data Logging and Download Software

The CEL242 stores the sound level every second to its internal memory. It also stores a summary of the measurement, including start time, date, measurement duration and the maximum sound level.

The meter comes with software to download measurements in CSV format, which can be read directly into Excel or similar spreadsheet programs.

For more information about the software available for this meter please visit the **Software** tab.

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.

https://eu.noisemeters.com/p/cel242/

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Specifications

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The CEL242 is a "general purpose" sound level meter, and so meets the international standards to Type 2 or Class 2. For any noise measurement that requires accurate, repeatable and comparable results, especially when used for hearing protection or other legal purposes, it is essential to use one that meets these standards.

Sound Level Meter Standards

- ANSI S1.4 Type 2
- IEC 60651 Type 2
- IEC 61672 Class 2

Technical Specification

Measurement ranges	30 to 100 and 60 to 130 dB
Noise floor	
Time weightings	Fast, Slow, Impulse
Freq. weightings	A and C
Battery power	3 x AA Alkaline for >35 hours operation
External power	5V via USB Mini B socket
Dimensions	72 x 212 x 31mm, 245g
Tripod mount	1/4" socket
AC output	0.85V RMS @ FSD "A" weighted
DC output	0 to 3.3V DC for FSD on selected range (FOC option)
Operating conditions	RH: 5 to 90% (non condensing) Temperature: 0 to 40°C Atmos. pressure 65 to 108kPa
Storage	Over 4 days of time history Max 18 hours/ measurement

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Product shortcut:
https://eu.noisemeters.com/p/cel242/

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