

CEL620A Integrating Sound Level Meter



Features

- Data logging with download to computer
- Quick and easy to use
- Simultaneous measurement of parameters (Lavg, Leq, TWA, Max, Min)
- Single range 20 to 140 dB

Applications

- Occupational Noise Measurement
- Hearing Protection Assessment
- OSHA, MSHA, ACGIH, European and other regulations

Integrating Sound Level Meter

The CEL620A provides a large set of parameters, such as "A" and "C" weighted Max, Min and Peak. As an Integrating sound level meter, the CEL620 also provides the average sound level Lavg and Leq. All measurements are made in parallel, which means you do not need to decide beforehand which ones you need - they are all stored.

Standards

- ANSI S1.4 and ANSI S1.43 - Type 1 or Type 2
- IEC 61672 - Class 1 or Class 2
- IEC 60651 and IEC 60804 - Type 1 or Type 2

Occupational Noise Regulations - OSHA and Others

All the CEL620 series meters are suitable for measurement to the USA standards OSHA, ACGIH, MSHA as well as regulations from all other parts of the world. Most regulations (including OSHA) require the use of a Type 2 calibrated meter that can measure the Lavg to enable accurate TWA noise exposure calculations. The CEL620A also measures the Peak for loud banging noise along with "A" and "C" weighting for hearing protector checks.

Data Logging and Software

The CEL620A comes complete with data logging capability. Measurements are stored in the meter's internal memory. When connected to a Windows computer, the meter acts like a memory card (shows as a removable drive) so the measurements can be loaded into a spreadsheet or moved to your hard drive for long term storage. There is no need to buy and install special software, which can be a real benefit on a company network where the installation of software is not encouraged.

For occupational noise assessments you can also use our NoiseMeters Applications web based system. Measurements can be transferred to our server without the need to install software, and reports generated from within your web browser. For NoiseMeters Applications please include item NMAPPS with your order.

If you want a little more than just loading the measurements into a spreadsheet then the Insight software simplifies the process of downloading the measurements, storing them in a database, managed by person, place or process criteria. To get the Insight software for the CEL620A include item ISC020 with your order.

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Specifications

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The CEL620 data logging Integrating Sound Level Meter is available as either Type 1 or Type 2 as defined by the international sound level meter standards.

Sound Level Meter Standards

- ANSI S1.4 and ANSI S1.43 Type 1 or Type 2
- IEC 60651 and IEC 60804 Type 1 or Type 2
- IEC 61672 Class 1 or Class 2

Using a meter that meets these standards is essential for repeatable results and especially for any measurements that will be used for legal purposes.

Technical Specifications

Measurement range	20 to 140 dB (single range), 143 dB Peak
Noise floor	
Display	320 x 240 pixel color TFT
Output to PC	USB Mini B
Batteries	3 x AA Alkaline, (20 hours with backlight off)
External Power	9 to 14V DC at 250mA
Measurements stored	100
Dimensions	72 x 229 x 31mm, 295g 2.8" x 9.0" x 1.2". 10.4oz

Measured Parameters

Frequency weightings	A, C and Z (simultaneous)
Time weightings	Fast, Slow and Impulse
Amplitude weightings	Q3, Q4 and Q5
Thresholds	70 to 90 dB (applies to Lavg)
Sound Level Integrated	LXY, LXYMax, LXYMin LXeq, Lavg, LAE
Peak	LXPeak
Takt Max	LTM3, LTM5, LXleq

Where X is frequency weighting A, C or Z and Y is time weighting Fast, Slow or Impulse

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Web Sites

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Product shortcut:
<https://noisemeters.co.uk/p/cel620a2/>

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