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CEL620B Octave Band Integrating Sound Level Meter

Features

- Data logging with download to computer
- Real-Time Octave Band Filters
- Quick and easy to use
- Simultaneous measurement of all parameters (Lavg, TWA, Max, Min, etc)
- Single range 20 to 140 dB

Applications

- Occupational Noise Measurement
- Detailed Hearing Protector Assessment (octave band)
- OSHA, MSHA, ACGIH, European and other regulations

Overview

The CEL620B Integrating Sound Level Meter is fitted with real-time Octave Band Filters, making it ideal for occupational noise surveys with detailed hearing protector assessments.

Real-Time Octave Band Sound Level Meter

The CEL620B provides the "A" and "C" weighted Max, Min and Peak. As an Integrating sound level meter, it 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.

At the same time it measures the octave band spectrum in real-time, which means it measures all bands at the same time, unlike sequential meters that can only measure one band at a time.

Occupational Noise Regulations - OSHA and Others

All the CEL620B 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 CEL620B also measures the Peak for loud banging noise and octave bands for hearing protector checks.

Data Logging and Software

The CEL620B 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 transfered 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 CEL620B 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
- ANSI S1.11-2004 (Octave Band Filters)
- IEC 61260 Class 0 (Octave Band Filters)

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	LXY, LXYMax, LXYMin
Integrated	LXeq, Lavg, LAE
Peak	LXPeak
Takt Max	LTM3, LTM5, LXIeq
Octave Bands	LXY, LXYMax, LXeq
Frequency Bands	16Hz to 16kHz in 11 bands

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

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Web Sites

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Product shortcut:
https://www.noisemeters.ie/p/cel620b2/

Tech Support:
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