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# CEL632A Occupational Sound Level Meter

### Features

- Data Logging with detailed Time History store
- Voice Notes and Audio Recording
- Automatic On/Off Timers
- Measures Lavg, TWA, Leq, Lepd, Min, Max, etc. Simultaneously
- Range: 20 to 140 dB(A)
- Back Erase to remove unwanted noise events
- Data Markers

### Applications

- Occupational Noise Measurements
- Hearing Protector Checks
- OSHA, MSHA, ACGIH, European and other occupational noise regulations

### Overview

In addition to the usual measurements needed for an occupational noise assessment, the CEL632 has advanced automatic timing and detailed storage features.

The CEL632A Sound Level Meter measures all the parameters needed for a successful survey of workplace noise. The main parameters - Lavg, Leq, Peak, Lmax, Fast, Slow, etc. - are all measured simultaneously, so there is no need to choose before starting the measurement. With a single span from 20 to 140dB, there is also no need to choose the measurement range either.

### Data Logging and Software

The CEL632A comes complete with data logging capability with measurements stored in the meter's large internal memory.

### CasellaDrive

When connected to a Windows computer using the free CasellaDrive software, the meter acts like a memory stick (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 special software.

### Insight

Due to the large amount of data and the potential complexity of the measurements, we would recommend the use of the Insight software. It simplifies the process of downloading the measurements and stores them in a database, managed by person, place or process criteria. The Insight software is included with the sound level meter.

# CEL632A Occupational Sound Level Meter

## Specifications

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The CEL632A data logging Integrating Sound Level Meter is available as either Type 1 or Type 2 as defined by the international sound level meter standards.

| | |
|---|---|
| Measurement range | 20 to 140 dB (single range), 143 dB Peak |
| Display | 320 x 240 pixel color TFT |
| Output to PC | USB Mini B |
| Batteries | 3 x AA Alkaline<br>(15 hours with backlight off) |
| External Power | 9 to 14V DC at 250mA<br>(2.1mm connector) |
| Dimensions | 72 x 229 x 31mm, 295g<br>2.8" x 9.0" x 1.2". 10.4oz |
| Memory | 1GB<br>>2.5 years when logging set to 1 second |
| Timers | Duration 1s to 24h<br>On/Off Timers: 6 sets with selectable times and repeat function. |
| Audio Recording | 8kHz sampling, 60 hours recording<br>24kHz sampling, 10 hours recording |

### 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.

### 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, LC-LA |
| Integrated | LXeq, Lavg, LAE |
| Peak | LXPeak |
| Takt Max | LTM3, LTM5, LXIeq |
| Time History Level 1 | Periods of 1 minute to 1 hour |
| Time History Level 2 | Periods of 1 second to 30 mins |

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

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**Web Sites**

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

Product shortcut:
https://noisemeters.co.uk/p/cel632a2/

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