# CEL-240
## Digital Sound Level Meter

**CASELLA**
CEL

## Simple and Accurate Noise Measurements

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## KEY FEATURES:

- **Simple operation**
- **Rugged design**
- **High resolution display**
- **Latest digital technology**
- **Fully compliant with IEC 61672**
- **Large measurement range**
- **Maximum hold function**
- **Automatic calibration**
- **Greater than 35 hours battery life**
- **2 year warranty**
- **USB output to PC**

## INTRODUCTION

With intuitive 2 key operation, the CEL-240 is an easy to use instrument designed to undertake noise measurements for a variety of applications.

By implementing the latest digital technology, the CEL-240 gives absolute reliability, ensuring the highest levels of accuracy and performance, all housed in a rugged and compact design.

With the high resolution display unparalleled in such an inexpensive unit, the CEL-240 can display the time-history of noise levels, allowing an easy assessment of the current noise environment.

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## Features

The CEL-240 has a simple user interface using two 'softkeys', which represent options at the bottom of the screen, making the instrument very easy to use. Sound pressure and maximum sound pressure are simultaneously displayed in either a numerical bargraph or unique graphical time-history display (shown right).

Settings can be easily changed by pressing 🔧 key. Both frequency weighting (A or C) and time weighting (fast, slow or impulse) can be specified. Calibration could not be simpler, the CEL-240 automatically recognises the application of a calibrator, and with a single key press adjusts the calibration.

Instantaneous and maximum sound pressure levels are displayed. These values, as well as the graphical time-history can be reset by pressing the ▶|◀ key.

### dB24 Software

This optional software allows the instruments' USB output to be logged and stored on a PC in real-time. Sound pressure levels are stored by dB24 every second into a data file compatible with PC based spreadsheet applications. dB24 offers a simple and affordable way of logging the time-history of noise levels over a desired period of time.

## Technical Specification

| | | | |
|---|---|---|---|
| Applicable standards: | IEC 61672: 2002 Class 2 | Batteries: | 3x AA Alkaline or rechargeable |
| | IEC 60651: Type 2 (1979) | Battery life: | Greater than 35 hours |
| | ANSI S1.4: Type 2 (1983) | External power: | 5V via USB 2.0 'Mini B' socket |
| Measurement range: | 30-130dB RMS | Tripod mount: | 1/4" Whitworth socket |
| Selectable ranges: | 30-100 or 60-130dB | AC output: | 0.85V RMS @ FSD 'A' weighted |
| Noise floor: | <33dB(A) | DC output: | 0-1.3V (Optional) |
| Time weightings: | Fast, Slow and Impulse | Operating conditions: | |
| Frequency weightings: | A and C | | Relative humidity of 5 to 90% (non condensing) |
| Weight: | 245g including batteries | | Temperature 0 to 40°C (Class 2) |
| Dimensions: | 72x212x31mm | | Atmospheric pressure of 65 to 108kPa |

## Ordering Information

| | |
|---|---|
| CEL-240 | Digital Sound Level Meter including windshield and batteries |
| CEL-6840 | Kit case |
| CEL-6841 | Spare windshield |
| CEL-6842 | dB24 Software (optional) |
| CMC51 | PC to USB cable (optional) |

## Instrument Kits

CEL-240/K1 Digital Sound Level Meter Kit. Kit includes instrument, kit case, windshield, CEL- 110/2 calibrator, instruction manuals (multilingual). Both the CEL-240 and CEL-110/2 are delivered with calibration certificates as standard.

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