CEL-200 Series
Digital Sound Level Meters

CASELLA
CEL

Full Compliance, Great Value Sound Level Meters

67.5

100

80

60

CEL-200 Series
Digital Sound Level Meters

KEY FEATURES:

- **Simple operation**
- **Rugged design**
- **High resolution display**
- **Latest digital technology**
- **Fully compliant with IEC 61672**
- **Large measurement range**
- **Choice of 4 models**
- **Logging and Averaging models**
- **Greater than 35 hours battery life**
- **2 year warranty**
- **USB output to PC with optional software**
- **Includes calibration certificate**

INTRODUCTION:

With intuitive 2 key operation, the CEL-200 Series is an easy to use range of instruments, designed to undertake noise measurements for a variety of applications such as risk assessments.

By implementing the latest digital technology, the CEL-200 Series gives excellent repeatability, ensuring the highest levels of accuracy and performance, all housed in a rugged and compact design.

With a high resolution display unparalleled in such an inexpensive unit, the CEL-200 Series can display the time-history of noise levels, allowing an easy assessment of the current noise environment.

IDEAL

Think Environment Think Casella
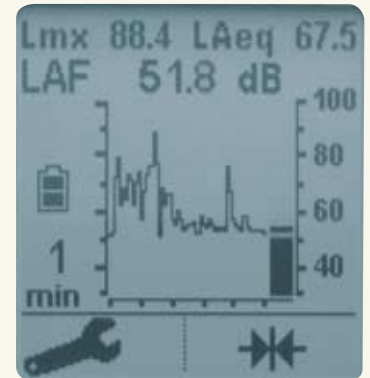
CEL-200 Series

Digital Sound Level Meters

CASELLA
CEL

Features

The CEL-200 Series has a simple user interface using two 'softkeys', which represent options displayed at the bottom of the screen. This makes the instrument very easy to use and any setup changes are retained the next time the unit is switched on. To accurately measure fluctuating noise levels, the CEL-244 and CEL-246 models measure average values, integrated over time; L_{eq} for European Standards and L_{avg} for the USA. In order to quantify how noise varies with time, logging variants (CEL-242 and CEL-246 store 419,000 data points) are also available to store the time history of the noise levels as well as the levels for the overall measurement (e.g. maximum and average levels, as detailed in the table below).

dB24 Software

This optional software allows the CEL-200 Series' real-time USB output to be logged and stored on a PC. Sound pressure levels are stored by dB24 every second into a data file compatible with PC based spreadsheet applications. Data stored within logging models (CEL-242 & CEL-246) can also be accessed since these meters act like a memory stick, allowing transfer of data to spreadsheet applications.

Model Selection	CEL-240	CEL-242	CEL-244	CEL-246
Instantaneous and maximum levels	●	●	●	●
Logging of 1s levels*		●		●
Selectable Logging interval of 1-10s*				●
Averaging (Leq or Lavg)			●	●
Compliance with ANSI S1.4, IEC 61672, 60651	●	●	●	●
Compliance with ANSI S1.43, IEC 60804			●	●

*requires dB24 to access data stored on CEL-242 and CEL-246 models

Technical Specification

Selectable ranges:	30-100 or 60-130dB	External power:	5V via USB 2.0 'Mini B' socket
Noise floor:	<33dB(A)	Tripod mount:	1/4" Whitworth socket
Time weightings:	Fast, Slow and Impulse	AC output:	0.85V RMS @ FSD 'A' weighted (Optional 0-1.3V DC instead of AC can be specified at the time of ordering)
Frequency weightings:	A and C		
Weight:	245g including batteries		
Dimensions:	72x212x31mm	Operating conditions:	Relative humidity, 5 to 90% (non condensing). Temperature, 0 to 40°C. Atmospheric pressure, 65 to 108kPa.
Batteries:	3x AA Alkaline or rechargeable		
Battery life:	Greater than 35 hours		

Accessories

CEL-6840	Kit case
CEL-6841	Spare windshield
CEL-6842	dB24 Software (optional)
CMC51	PC to USB cable (optional)
CEL-110/2	Acoustic Calibrator (Class 2)

Instrument Kits

Kits are available that include all of the necessary equipment to perform an effective noise assessment. These include the specified Sound Level Meter, kit case, windshield, CEL-110/2 calibrator, instruction manuals. Kits can be specified by adding /K1 to the part number e.g. CEL-246/K1.

Distributed By:

SM09002 v1.1

www.casellameasurement.com

IDEAL

Think Environment Think Casella