

CASELLA 
A DIVISION OF TSI

240 Series

Digital Sound Level Meter

Designed to make noise measurements with confidence! The 24X Series is an easy to use range of instruments, designed to undertake noise measurements for a variety of applications.



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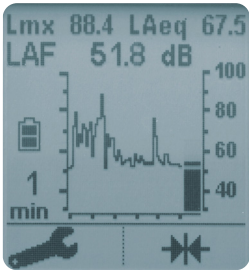
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Applications

- Occupational noise
- Product noise
- Fire alarm testing
- Simple walk through noise surveys

Key Features

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



By implementing the latest digital technology, the 24x Series gives excellent repeatability, ensuring the highest levels of accuracy and performance, all housed in a rugged and compact design.

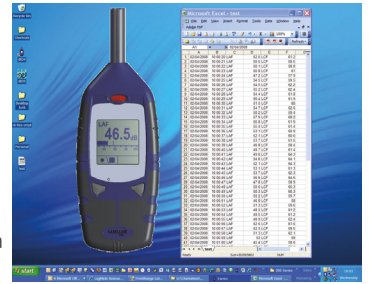
With a high resolution display unparalleled in such an inexpensive unit, the 24x Series can display the time-history of noise levels, allowing an easy assessment of the current noise environment.

Features

The 24x 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 24x series measures 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, the 24x series logging variant (24x series stores 419,000 data points) is 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 opposite).

dB24 Software

This optional software allows the 24x 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 the 24x series can also be accessed since these meters act like a memory stick, allowing transfer of data to spreadsheet applications.

Technical Specification

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

Model Selection

| 24x series | CEL-240 | CEL-246 |
|---|----------------|----------------|
| Instantaneous and maximum levels | ● | ● |
| Logging of 1s levels* | | ● |
| Selectable Logging interval of 1-10s* | | ● |
| Averaging (L_{eq} or L_{avg}) | | ● |
| Compliance with ANSI S1.4, IEC 61672, 60651 | ● | ● |
| Compliance with ANSI S1.43, IEC 60804 | | ● |

*requires CasellaDrive to access data stored on 24x series model

Accessories

| | |
|------------------|--|
| CEL-6840 | Kit case |
| CEL-6841 | Spare windscreen |
| CEL-6842 | dB24 and Casella Drive Software (optional) |
| CMC51 | PC to USB cable (optional) |
| CEL-120/2 | Acoustic Calibrator (Class 2) |

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Casella reserves the right to amend the specification without notice

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