

# Castle Sound Level Indicator

## Specification for Castle 824 'Smart Sensor'

Sometimes a low cost solution for finding sound levels can be very useful, for example when alarm testing, setting up a home cinema system or other applications where the accuracy of a full compliance meter is not required. The Castle 824 'Smart Sensor' is ideally placed for these situations.



### Features

- Large clear digital display
- A , C Frequency weightings
- FAST, SLOW Time weightings
- MAX hold function
- AC,DC output

### Specifications

<b>Sound level:</b>	30 -130 dB
<b>Accuracy:</b>	±1.5dB (under reference conditions)
<b>Ranges:</b>	30 – 80dB, 50 – 100dB 60 – 110dB, 80 - 130dB
<b>Display:</b>	5-digit LCD display
<b>Resolution:</b>	0.1 dB
<b>Bar Graph:</b>	50dB scale with 1 dB steps
<b>linearity range:</b>	50dB
<b>Warning:</b>	'OVER' & 'UNDER' indicating when value is out of level range
<b>Frequency Weighting:</b>	A, C
<b>Frequency Range:</b>	31.5 - 8.5K Hz
<b>Time Weighting:</b>	FAST, SLOW
<b>Microphone:</b>	1/2 inch electret condenser
<b>Self Calibration:</b>	10 seconds every power on.
<b>AC output:</b>	0.707 Vrms at FS output impedance approx. 600 Ω
<b>DC Output:</b>	10mV/dB output impedance approx. 100Ω
<b>Power Supply:</b>	1.5V (AA) x4
<b>Power Life:</b>	Approx. 30 hours from alkaline batteries
<b>Size:</b>	265 x 75 x 35mm
<b>Weight:</b>	300g including batteries



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Manufacture, hire and service of sound level and vibration instruments.

**Castle**  
advanced sound solutions

