

## Optimus Industrial Sound Level Meter



### Features

- Simple to use
- Simultaneous measurement of all parameters
- 120 dB measurement range
- Data logging with VoiceTag (audio notes)
- A, C and Z weightings
- Fast, Slow and Impulse response
- Bluetooth connection to mobile app

### Applications

- Basic noise surveys
- Noise ordinance enforcement
- Fire alarm testing
- Machinery maintenance and trouble-shooting

### Optimus Industrial

The CR15xB Optimus Industrial is a calibrated, professional grade sound level meter for noise measurements that must meet the relevant international standards. Despite being a powerful meter it is extremely easy to use, ensuring you get the correct measurements from the start.

The Optimus range of sound level meters uses the latest display technology and digital signal processing (DSP) techniques to provide you with a very powerful yet easy to use meter. The ease of use comes from the fact that all parameters are automatically measured at the same time, so no need to think about what you need in the split second before starting the measurement.

### Making Noise Measurements

Making measurements usually consists of checking the calibration (adjustments are automatic), recording a voice tag if required, and then taking the readings.

As this meter is a data logger all the measurement parameters are stored along with time, date and other relevant information.

### Future Upgrade

If you decide at a later date that you need an Integrating sound level meter or even octave band filters then we offer a simple upgrade path.

These features can be added at a later date. Some can even be fitted without returning the meter to the factory by remote update.

We can even change the meter from Class 2 to Class 1, although of course it must be returned for this upgrade.

Visit the **Options** tab for more details.

## Optimus Industrial Sound Level Meter

### Specifications

Standards	IEC 61672-1:2013 Class 1 or Class 2 IEC 61672-1:2002 Class 1 or Class 2 Group X IEC 60651:2001 Type 1 I or Type 2 I ANSI S1.4 -1983 (R2006), ANSI S1.43 - 1997 (R2007) ANSI S1.25:1991	Connections	USB Type B to PC AC & DC Output via ZL:174 (2 x Phono, 1m) Multi-pin IO for external power via ZL:171 cable (2.1mm socket) External Power: 5v-15v via MultilO socket via ZL:171 cable (2.1mm socket)
Microphone	Class 1 MK:224 pre-polarized, Class 2 MK:216 pre-polarized	Tripod Mount Case	1/4" Whitworth socket Material: High Impact ABS-PC with soft touch back & keypad
Measurement Range	20dB to 140dB RMS Single Range	Environmental	Temperature: Operating -10°C to +50°C, Storage -20°C to +60°C
Noise Floor	<18dB(A) Class 1, <21dB(A) Class 2		
Frequency Weightings	RMS & Peak : A, C, & Z Measured Simultaneously		Humidity: Up to 95% RH Non Condensing
Time Weightings	Fast, Slow & Impulse Measured Simultaneously	Electromagnetic performance	IEC 61672-1:2002 & IEC 61672-2:2003 Except where modified by EN 61000-6-1:2007 & EN 61000-6-1:2007
Display	High resolution display. Ambient light sensor & illuminated keypad		English, French, German, Spanish. Other language options may be available
Memory	8GB, 32GB factory fit option	Language options	NoiseTools Download, Configuration & Analysis software supplied as standard. Compatible with Microsoft Windows 7, 8, 10 and 11.
Time History	10ms, 62.5ms, 125ms, 250ms,	Software Support	
Data Rates	1/2 sec, 1 sec, 2 sec (User selectable)		
VoiceTag	Up to 30 seconds of audio notes with each measurement		
Audio Recording			
Dimensions	Size: 283mm x 65mm x 30mm		
Weight	300gms/10oz		
Power	4 x AA Alkaline Typically 12 hours with Alkaline AA Typically 20 hours with Lithium AA Non-Rechargeable External Power: 5v-15v via MultilO socket via ZL:171 cable (2.1mm socket)	Displayed Functions Stored Functions	LXY, LXYMax, LXYMin, Run Time LXYMax & Time History of LXYMax, Start Time  where x=A ,C ,Z; y= F, S, I

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#### Web Sites

Main site:  
<https://www.noisemeters.co.uk>

Product shortcut:  
<https://www.noisemeters.co.uk/p/cr152b/>

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