

Optimus Environmental Noise Meter



(c) NoiseMeters

Features

- Audio recording
- VoiceTag notes
- Single measurement range 20 to 140 dB
- Weatherproof Outdoor Kit available

Applications

- Environmental Noise Surveys
- Mixed industrial and residential areas
- Noise ordinance and community noise assessments

Measure All, Miss Nothing

The Optimus range of meters measure all parameters at the same time, so there is no need to spend time figuring out if you have the meter set up correctly before starting a measurement.

The Optimus Environmental sound level meter is available as either Class 1 or Class 2 - the most common for environmental noise measurement and more accurate being Class 1. This meter also has everything needed for occupational noise measurement in line with the Noise at Work regulations, making it ideal for anybody involved in both environmental (outside the factory) and occupational (inside the factory) noise.



Outdoor Kit Option

If the meter is to be left unattended in poor weather conditions then the optional Outdoor Kit should be used to offer protection against the elements.

The Outdoor Kit also includes a large rechargeable battery pack for at least seven days of monitoring.

Our Recommendation



Most environmental noise surveys demand the use of a Class 1 Sound Level Meter that can make repeating measurements, such as the 5 minute LAeq and L90 (background noise).

We recommend the Class 1 Optimus Environmental with Data Logging in a Noise Measurement Kit, order code **CK1710**). Most regulations demand the use of a suitable Calibrator, which is included with this kit.

Tonal Noise?

If there is any tonal content to the noise, or if you just need to make an analysis of the frequency content, please see:

- Optimus Environmental with 1/3 Octave Band Filters

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Specifications

Standards	IEC 61672-1:2013 Class 1 or Class 2 IEC 61672-1:2002 Class 1 or Class 2 Group XIEC IEC 60651:2001 Type 1 I or Type 2 I IEC 60804:2000 Type 1 or Type 2 IEC 61252:1993 Personal Sound Exposure Meters ANSI S1.4 -1983 (R2006), ANSI S1.43 - 1997 (R2007) ANSI S1.25:1991	Dimensions	Size: 283mm x 65mm x 30mm Weight: 300gms/10oz
Measurement Range Noise Floor Frequency Weightings	20dB to 140dB RMS Single Range <18dB(A) Class 1, <21dB(A) Class 2 RMS & Peak : A, C, & Z Measured Simultaneously	Power	Battery: 4 x AA Alkaline Typically 12 hours with Alkaline AA Typically 20 hours with Lithium AA Non-Rechargeable
Time Weightings	Fast, Slow & Impulse Measured Simultaneously	Connections	USB Type B to PC AC & DC Output via ZL:174 (2 x Phono, 1m)
Memory Time History	8GB with 32GB factory fit option 10ms, 62.5ms, 125ms, 250ms, 1/2 sec, 1 sec, 2 sec	Case	Material: High Impact ABS-PC with soft touch back & keypad 1/4" Whitworth socket
VoiceTag Audio	Up to 30 seconds of audio notes with each measurement	Tripod Mount	Multi-pin IO for external power via ZL:171 cable (2.1mm socket) External Power: 5v-15v via MultiIO socket via ZL:171 cable (2.1mm socket)
Bluetooth	BLE compatible with Android and iOS devices. Mobile applications available from Google Play and the App Store	Environmental	Temperature: Operating -10°C to +50°C, Storage -20°C to +60°C Humidity: Up to 95% RH Non Condensing IEC 61672-1:2002 & IEC 61672-2:2003 IEC 61672-1:2013 & IEC 61672-2:2013 Except where modified by EN 61000-6-1:2007 & EN 61000-6-1:2007
Audio Recording	Off, Manual, Threshold Triggered, Advanced Trigger Studio Quality - 96kHz/32bit WAV format High quality - 48kHz/24bit WAV format Standard quality - 16kHz/16bit WAV format Pre-Trigger function	Electromagnetic	English, French, German, Spanish.
Integrator Quick settings Ln Statistical Values	EU, OSHA HC & OSHA NC, OSHA HC & ACGIH, MSHA HC & MSHA EC 14 independent statistical Ln values calculated from 1/16th LAF 7 preset to L1.0, L5.0, L10.0, L50.0, L90.0, L95.0 & L99.0	Language options	Displayed Functions LXY, LXYMax, LXYMin, LXeq, LCPeak, LAPeak, LZPeak, LCeq-LAeq, LXE, LAeq Graph of Short LAeq, LCPeak Integrators 2 & 3: TWA, Dose%, Est Dose%
Measurement control	Manual, 1 min, 5 min, 10 min, 15 min, 30 mins, 1 hour, Lden Automatic Synchronisation & Repeat Pause & Back Erase with user selectable duration	Stored Functions	Measurement Run Time 14 Statistical Ln values LXYMax & Time History of LXYMax LAeq, LCeq, LZeq, LCPeak, LZPeak, LAPeak, LAeq Time History of LAeq, LCeq, LZeq, LCPeak, LZPeak, LAPeak, LAeq Integrators 2 & 3: Lavg, TWA, %Dose Time History of Lavg Ln Values: 14 independent statistical values Audio recording during measurement where x=A, C, Z; y= F, S, I

Head Office

NoiseMeters Ltd
7 Jayes Park
Ockley
Surrey
RH5 5RR

Telephone **+44 130 677 0855**
Fax **+44 845 680 0316**

Email: **info@noisemeters.com**
Support: **support@noisemeters.com**

Web Sites

Main site:
<https://au.noisemeters.com>

Product shortcut:
<https://au.noisemeters.com/product/cr/optimus/green/cr1700/>

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