NoiseMeters

Optimus Environmental Noise Meter



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

https://www.noisemeters.co.uk/product/cr/optimus/green/cr1700/

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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	Dimensions	Size: 283mm x 65mm x 30mm Weight: 300gms/10oz
	IEC 60651:2001 Type 1 I or Type 2 I IEC 60804:2000 Type 1 or Type 2	Power	Battery: 4 x AA Alkaline Typically 12 hours with Alkaline AA
	IEC 61252:1993 Personal Sound Exposure		Typically 20 hours with Lithium AA Non-
	Meters ANSI S1.4 -1983 (R2006), ANSI S1.43 -		Rechargeable
	1997 (R2007) ANSI S1.25:1991	Connections	USB Type B to PC AC & DC Output via ZL:174 (2 x Phono, 1m)
Measurement Range Noise Floor	20dB to 140dB RMS Single Range <18dB(A) Class 1, <21dB(A) Class 2		Multi-pin IO for external power via ZL:171 cable (2.1mm socket)
Frequency Weightings	RMS & Peak : A, C, & Z Measured		External Power: 5v-15v via MultiIO socket
Time Weightings	Simultaneously Fast, Slow & Impulse Measured		via ZL:171 cable (2.1mm socket)
	Simultaneously	Case	Material: High Impact ABS-PC with soft touch back & keypad
Memory Time History	8GB with 32GB factory fit option 10ms, 62.5ms, 125ms, 250ms, 1/2 sec, 1	Tripod Mount	1/4" Whitworth socket
VoiceTag Audio	sec, 2 sec Up to 30 seconds of audio notes with each	Environmental	Temperature: Operating -10°C to +50°C, Storage -20°C to +60°C
-	measurement	Electromagnetic	Humidity: Up to 95% RH Non Condensing IEC 61672-1:2002 & IEC 61672-2:2003
Bluetooth	BLE compatible with Android and iOS devices.		IEC 61672-1:2013 & IEC 61672-2:2013 Except where modified by EN
	Mobile applications available from Google Play and the App Store		61000-6-1:2007 & EN 61000-6-1:2007
Audio Recording	Off, Manual, Threshold Triggered, Advanced	Language options	English, French, German, Spanish.
Addio Recording	Trigger	Displayed Functions	LXY, LXYMax, LXYMin, LXeq, LCPeak,
	Studio Quality - 96kHz/32bit WAV format High quality - 48kHz/24bit WAV format		LAPeak, LZPeak, LCeq-LAeq, LXE, LAleq Graph of Short LAeq, LCPeak
	Standard quality - 16kHz/16bit WAV format Pre-Trigger function		Integrators 2 & 3: TWA, Dose%, Est Dose%
Integrator Quick	EU, OSHA HC & OSHA NC, OSHA HC &		Measurement Run Time 14 Statistical Ln values
settings Ln Statistical Values	ACGIH, MSHA HC & MSHA EC	Stored Functions	LYVMay 9 Time History of LYVMay
LIT Statistical values	14 independent statistical Ln values calculated from 1/16th LAF	Stored Functions	LXYMax & Time History of LXYMax LAeq, LCeq, LZeq, LCPeak, LZPeak,
	7 preset to L1.0, L5.0, L10.0, L50.0, L90.0, L95.0 & L99.0		LAPeak, LAleq Time History of LAeq, LCeq, LZeq, LCPeak,
Measurement control	Manual, 1 min, 5 min, 10 min, 15 min,30		LZPeak, LAPeak, LAIeq Integrators 2 & 3: Lavg , TWA. %Dose
	mins, 1 hour, Lden Automatic Synchronisation & Repeat		Time History of Lavg Ln Values: 14 independent statistical values
	Pause & Back Erase with user selectable duration		Audio recording during measurement
			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/product/cr/optimus/green/ cr1700/

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