NoiseMeters

Optimus Green - Environmental and Noise at Work Meter with Octave Band Filters



Features

- Audio recording
- VoiceTag notes
- Single measurement range 20 to 140 dB
- Real-time Octave Band Filters
- Weatherproof Outdoor Kit available

Applications

- Environmental soise surveys
- Noise at work surveys
- Hearing protector assessments
- Mixed industrial and residential areas

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 Green sound level meter is available as either Type 1 or Type 2 - the most common for environmental noise measurement and more accurate being Type 1. This meter has everything needed for a noise at work assessment too, including octave band filters for detailed analysis and hearing protector selection. For noise at work Type 2 is adequate.



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: CK171A Noise Measurement Kit



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

For occupational and factory noise assessments, most regulations state that the lower cost Type 2 meter is adequate.

For measurement of both environmental and occupational noise we recommend the Type 1 option, as it is more than adequate for noise at work but also meets the higher demands of environmental use. The Type 1 microphone also has a lower noise floor, making it more suitable for measuring the typlically lower sound levels associated with outdoor measurements.

For these reasons we recommend the **CK171A Noise Measurement Kit**, which includes a Calibrator as required by most regulations.

https://noisemeters.com/product/cr/optimus/green/cr170a/

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Optimus Green - Environmental and Noise at Work Meter with Octave Band Filters 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 IEC 61252:1993 Personal Sound Exposure Meters ANSI S1.4 -1983 (R2006), ANSI S1.43 -	Power	Battery: 4 x AA Alkaline Typically 12 hours with Alkaline AA Typically 20 hours with Lithium AA Non- Rechargeable
	1997 (R2007) ANSI S1.25:1991 Octave Band Filters to IEC 61260 & ANSI	Connections	USB Type B to PC AC & DC Output via ZL:174 (2 x Phono, 1m)
	S1.11-2004		Multi-pin IO for external power via ZL:171 cable (2.1mm socket)
Measurement Range Noise Floor Frequency Weightings	20dB to 140dB RMS Single Range <18dB(A) Type 1, <21dB(A) Type 2 RMS & Peak : A, C, & Z Measured		External Power: 5v-15v via MultilO socket via ZL:171 cable (2.1mm socket)
Fragueney Bondo	Simultaneously	Case	Material: High Impact ABS-PC with soft touch back & keypad
Frequency Bands	10 x Octave Bands (31.5Hz to 16kHz, A, B & C variants) Fast, Slow & Impulse Measured	Tripod Mount	1/4" Whitworth socket
Time Weightings	Simultaneously	Environmental	Temperature: Operating -10°C to +50°C, Storage -20°C to +60°C
Memory Time History	4GB with 32GB factory fit option 10ms, 62.5ms, 125ms, 250ms, 1/2 sec, 1 sec, 2 sec	Electromagnetic	Humidity: Up to 95% RH Non Condensing IEC 61672-1:2002 & IEC 61672-2:2003 IEC 61672-1:2013 & IEC 61672-2:2013
VoiceTag Audio	Up to 30 seconds of audio notes with each measurement		Except where modified by EN 61000-6-1:2007 & EN 61000-6-1:2007
Bluetooth	BLE compatible with Android and iOS devices.	Language options	English, French, German, Spanish.
	Mobile applications available from Google Play and the App Store	Displayed Functions	LXY, LXYMax, LXYMin, LXeq, LCPeak, LAPeak, LZPeak, LCeq-LAeq, LXE, LAleq Graph of Short LAeq, LCPeak
Audio Recording	Off, Manual, Threshold Triggered, Advanced Trigger		Integrators 2 & 3: TWA, Dose%, Est Dose%
	Studio Quality - 96kHz/32bit WAV format High quality - 48kHz/24bit WAV format		Real-Time 1:1 Octave Bands (Graphical & Numeric)
	Standard quality - 16kHz/16bit WAV format Pre-Trigger function		Measurement Run Time 14 Statistical Ln values
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	Stored Functions	LXYMax & Time History of LXYMax LAeq, LCeq, LZeq, LCPeak, LZPeak, LAPeak, LAleq Time History of LAeq, LCeq, LZeq, LCPeak, LZPeak, LAPeak, LAleq Integrators 2 & 3: Lavg, TWA. %Dose Time History of Lavg
Measurement control	Manual, 1 min, 5 min, 10 min, 15 min,30 mins, 1 hour, Lden Automatic Synchronization & Repeat Pause & Back Erase with user selectable duration		1:1 Octave Bands:Overall Leq & Leq Time History for each band Ln Values: 14 independent statistical values Audio recording during measurement
			where x=A ,C ,Z; y= F, S, I

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Web Sites

Main site: https://noisemeters.com

Product shortcut: https://noisemeters.com/product/cr/optimus/green/cr170a/

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