NoiseMeters

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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.

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

Case

Electromagnetic

Standards IEC 61672-1:2013 Class 1 or Class 2

XIEC

IEC 60651:2001 Type 1 I or Type 2 I IEC 60804:2000 Type 1 or Type 2

S1.11-2004

Measurement Range Noise Floor

Frequency Weightings

Frequency Bands

Time Weightings

Memory Time History

VoiceTag Audio

Bluetooth

Audio Recording

Integrator Quick

settings Ln Statistical Values

Measurement control

Head Office

Berklev MI 48072

USA

NoiseMeters Inc

3233 Coolidge Hwy

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IEC 61672-1:2002 Class 1 or Class 2 Group

IEC 61252:1993 Personal Sound Exposure

ANSI S1.4 -1983 (R2006), ANSI S1.43 -

1997 (R2007) ANSI S1 25:1991

Octave Band Filters to IEC 61260 & ANSI

20dB to 140dB RMS Single Range <18dB(A) Type 1, <21dB(A) Type 2

RMS & Peak : A, C, & Z Measured

Simultaneously

10 x Octave Bands (31.5Hz to 16kHz, A, B &

C variants)

Fast, Slow & Impulse Measured

Simultaneously

4GB with 32GB factory fit option

10ms, 62.5ms, 125ms, 250ms, 1/2 sec, 1 sec, 2 sec

Up to 30 seconds of audio notes with each measurement

BLE compatible with Android and iOS

devices.

Mobile applications available from Google

Play and the App Store

Off, Manual, Threshold Triggered, Advanced

Studio Quality - 96kHz/32bit WAV format High quality - 48kHz/24bit WAV format Standard quality - 16kHz/16bit WAV format

Pre-Trigger function

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

Manual, 1 min, 5 min, 10 min, 15 min, 30

mins, 1 hour, Lden

Automatic Synchronization & Repeat Pause & Back Erase with user selectable

duration

Dimensions Size: 283mm x 65mm x 30mm

Weight: 300gms/10oz

Power Battery: 4 x AA Alkaline

Typically 12 hours with Alkaline AA Typically 20 hours with Lithium AA Non-

Rechargeable

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 MultiIO socket via

ZL:171 cable (2.1mm socket)

Material: High Impact ABS-PC with soft touch

back & keypad

1/4" Whitworth socket Tripod Mount

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

Language options English, French, German, Spanish.

Displayed Functions LXY, LXYMax, LXYMin, LXeq, LCPeak,

LAPeak, LZPeak, LCeq-LAeq, LXE, LAleq Graph of Short LAeq, LCPeak

Integrators 2 & 3: TWA, Dose%, Est Dose%

Real-Time 1:1 Octave Bands (Graphical &

Numeric)

Measurement Run Time 14 Statistical Ln values

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 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

Web Sites

Main site:

https://www.noisemeters.com

Product shortcut:

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

Tech Support:

https://support.noisemeters.com

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