Optimus Red - Noise at Work Sound Level Meter



Features

- Meets EU regulations and HSE guidelines
- Measures LAeq and LCPeak
- Quick and easy to use
- Bluetooth and mobile app
- Single range 20 to 140 dB

Applications

- Noise at work surveys
- Hearing protector selection
- Noise exposure assessments

Overview

The Optimus Red sound level meter is for measuring sound levels in factories and other work environments in line with the UK and EU occupational noise regulations.

Let the meter take the strain - The Optimus Red has been designed specifically for noise at work measurements. Rather than being a general purpose meter that leaves you trying to select the correct measurement range and parameters, the Optimus Red does it all for you, measuring all the measurements that you might need now and in the future.

Lower cost meters are available (even within our range), but they will not usually meet the IEC 61672 standard and will not be Integrating as required for occupational noise measurement. They will certainly not be so powerful or easy to use.

Buying the Right Meter

The noise at work regulations state that you should use at least a Class 2 Integrating Sound Level Meter that provides you with measurements of LAeq and LCPeak. The meter should be verified by a suitably equipped laboratory when new and at least every two years. You also need a Calibrator to check the meter's function before and after making measurements.

Our Recommendation

For basic occupational noise measurements, we recommend the standard Optimus Red Class 2 (order code CR162A) with Calibrator (order code CR514). These parts can be ordered together as Noise Measurement Kit CK162A.

If you prefer to have data logging with download to a computer and reporting, please see the Optimus Red with Data Logging. For more detailed analysis and hearing protector selection see the Optimus Red with Octave Band Filters.

NoiseMeters

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Specifications

Standards IEC 61672-1:2013 Class 1 or

IEC 61672-1:2002 Class 1 or

Class 2 Group X

IEC 60651:2001 Type 1 I or Type 2

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

20dB to 140dB RMS single range

S1.25:1991

IEC 61260:1996 & ANSI

S1.11-2004

DIN 45657:2005-03

Measurement

Range Noise floor <18dB(A) Class 1, <21dB(A)

Class 2

RMS & peak : A, C, & Z measured Frequency

simultaneously weightings Time weightings Fast, Slow & Impulse measured

simultaneously

Integrators Three simultaneous "virtual" noise

meters. Integrator 1 is preset to Q3 for Leg functions. Integrators 2 & 3 can be configured with the

following

3. 4 or 5 dB Exchange rate

Threshold 70dB to 120dB (1 dB steps) Time weighting

None or Slow

Criterion level 70dB to 120dB (1 dB steps) Criterion time 1 to 12 hours in 1 hour steps EU, OSHA HC & OSHA NC, Integrator quick settings

OSHA HC & ACGIH, MSHA HC &

MSHA EC. Custom

Size 283mm x 65mm x 30mm

300gms/10oz Weight

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)

Outputs AC & DC output via ZL:174 (2 x

Phono, 1m)

Multi-pin IO for external power via ZL:171 cable (2.1mm socket) Bluetooth BLE compatible with Anrdoid and iOS devices

Case Material: high impact ABS-PC with

soft touch back and keypad

Tripod mount 1/4" Whitworth socket

Environmental Temperature: Operating -10°C to +50°C, storage -20°C to +60°C

Humidity: Up to 95% RH non-

condensing

Electromagnetic IEC 61672-1:2002, IEC

performance 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

English, French, German, Options

Spanish, Italian

Display functions LXY, LXYMax, LXYMin, LXeq,

LCPeak, LZPeak, LCeq-LAeq, LXE Graph of short LAeq, LCPeak, TWA, dose%, est dose% Measurement run time

where x=A, C, Z; y=F, S, I

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Main site:

https://www.noisemeters.co.uk

Product shortcut:

https://www.noisemeters.co.uk/p/cr162a/

Tech Support:

https://support.noisemeters.com