NoiseMeters

Phone: +44 130 677 0855
Email: info@noisemeters.com

# Optimus Yellow Data Logging Sound Level Meter

## Features

- Simple to use
- Simultaneous measurement of all parameters
- 120 dB measurement range
- Data logging with VoiceTag (audio notes)
- A, C and Z weightings
- Fast, Slow and Impulse response
- Bluetooth connection to mobile app

## Applications

- Basic noise surveys
- Noise ordinance enforcement
- Fire alarm testing
- Machinery maintenance and trouble-shooting

### Optimus Yellow

The CR15xB Optimus Yellow is a calibrated, professional grade sound level meter for noise measurements that must meet the relevant international standards. Despite being a powerful meter it is extremely easy to use, ensuring you get the correct measurements from the start.

The Optimus range of sound level meters uses the latest display technology and digital signal processing (DSP) techniques to provide you with a very powerful yet easy to use meter. The ease of use comes from the fact that all parameters are automatically measured at the same time, so no need to think about what you need in the split second before starting the measurement.

### Making Noise Measurements

Making measurements usually consists of checking the calibration (adjustments are automatic), recording a voice tag if required, and then taking the readings.

As this meter is a data logger all the measurement parameters are stored along with time, date and other relevant information.

### Future Upgrade

If you decide at a later date that you need an Integrating sound level meter or even octave band filters then we offer a simple upgrade path.

These features can be added at a later date. Some can even be fitted without returning the meter to the factory by remote update.

We can even change the meter from Class 2 to Class 1, although of course it must be returned for this upgrade.

Visit the **Options** tab for more details.

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## Optimus Yellow Data Logging Sound Level Meter

### Specifications

| | |
|---|---|
| Standards | IEC 61672-1:2013 Class 1 or Class 2<br>IEC 61672-1:2002 Class 1 or Class 2 Group X<br>IEC 60651:2001 Type 1 I or Type 2 I<br>ANSI S1.4 -1983 (R2006),<br>ANSI S1.43 - 1997 (R2007)<br>ANSI S1.25:1991 |
| Microphone | Class 1 MK:224 pre-polarized,<br>Class 2 MK:216 pre-polarized |
| Measurement Range | 20dB to 140dB RMS Single Range |
| Noise Floor | <18dB(A) Class 1, <21dB(A) Class 2 |
| Frequency Weightings | RMS & Peak : A, C, & Z Measured Simultaneously |
| Time Weightings | Fast, Slow & Impulse Measured Simultaneously |
| Display | High resolution display. Ambient light sensor & illuminated keypad |
| Memory | 4GB, 32GB factory fit option |
| Time History Data Rates | 10ms, 62.5ms, 125ms, 250ms, 1/2 sec, 1 sec, 2 sec (User selectable) |
| VoiceTag Audio Recording | Up to 30 seconds of audio notes with each measurement |
| Dimensions | Size: 283mm x 65mm x 30mm |
| Weight | 300gms/10oz |
| Power | 4 x AA Alkaline<br>Typically 12 hours with Alkaline AA<br>Typically 20 hours with Lithium AA Non-Rechargeable<br>External Power: 5v-15v via MultiIO socket via ZL:171 cable (2.1mm socket) |

| | |
|---|---|
| Connections | USB Type B to PC<br>AC & DC Output via ZL:174 (2 x Phono, 1m)<br>Multi-pin IO for external power via ZL:171 cable (2.1mm socket)<br>External Power: 5v-15v via MultiIO socket via ZL:171 cable (2.1mm socket) |
| Tripod Mount | 1/4" Whitworth socket |
| Case | Material: High Impact ABS-PC with soft touch back & keypad |
| Environmental | Temperature: Operating -10°C to +50°C, Storage -20°C to +60°C<br>Humidity: Up to 95% RH Non Condensing |
| Electromagnetic performance | IEC 61672-1:2002 & IEC 61672-2:2003<br>Except where modified by EN 61000-6-1:2007 & EN 61000-6-1:2007 |
| Language options | English, French, German, Spanish. Other language options may be available |
| Software Support | NoiseTools Download, Configuration & Analysis software supplied as standard. Compatible with Microsoft Windows XP, Vista, 7, 8 & 10 (32bit & 64bit) |
| Displayed Functions | LXY, LXYMax, LXYMin, Run Time |
| Stored Functions | LXYMax & Time History of LXYMax, Start Time<br>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://www.noisemeters.asia**

Product shortcut:
**https://www.noisemeters.asia/p/cr152b/**

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