

The MTN/VM330D is a compact, rechargeable, portable handheld Vibration Meter designed to conform to ISO10816-3 and operate with a constant current accelerometer providing an accurate vibration measurement. Features comprise of the ability to store and transfer to PC up to 100 time-stamped readings, including; RMS, peak, peak-peak, crest factor and bearing conditions all on an easy to read vibrant colour LCD display.

## MTN/VM330D



## Features

- Rechargeable Lithium-ion battery with worldwide charger
- Switchable low pass filter
- User-selectable units
- High visibility colour LCD display.
- RMS, peak, peak-peak, crest factor readings in acceleration, velocity or displacement modes
- Bearing condition modes (acceleration and velocity)
- 100 memories can store vibration and time/date
- Memory data can be transferred to PC with USB cable (included)
- Industrial rubber case
- Adaptive amplifier for high accuracy
- AC output
- Audio output for listening to vibration directly
- Supplied with MTN/2200 probe sensor, others available.

## Specifications

### Measurement ranges

|              |              |
|--------------|--------------|
| Acceleration | 20g          |
| Velocity     | 200mm/s      |
| Displacement | 2000 $\mu$ m |

*Different ranges available*

|       |  |
|-------|--|
| Modes | RMS<br>Peak<br>Peak-peak<br>Crest factor<br>Bearing acceleration<br>Bearing velocity |
|-------|--|

### ISO10816-3

- 8 modes for machine classes I, II, III, IV, rigid/fixed foundations
- Visual indication of machine status:
 

|  |                |
|--|----------------|
|  | Unacceptable   |
|  | Unsatisfactory |
|  | Satisfactory   |
|  | Good           |

### Frequency range

|                  |                   |
|------------------|-------------------|
| Low pass filters | 1kHz, 5kHz, 10kHz |
| Band-pass filter | 1-10kHz           |

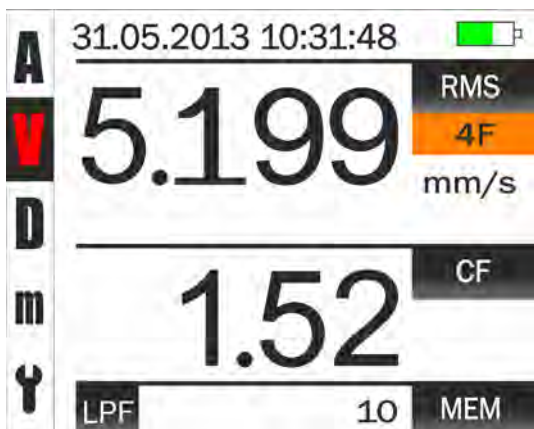
## Carrying case



## Dimensions



## VM330D colour display



## Units

|              |                       |
|--------------|-----------------------|
| Acceleration | g, m/sec <sup>2</sup> |
| Velocity     | mm/sec, in/sec        |
| Displacement | µm, mils              |

## Display

|               |                  |
|---------------|------------------|
| Type          | TFT 16bit colour |
| Resolution    | 160 x 128        |
| Viewing angle | 100°             |
| Viewable size | 35 x 28mm        |

## Memory

|                  |   |
|------------------|---|
| Size             | 100 slots storing vibration, time, date, filter, units, crest factor                            |
| PC data transfer | Vibration, time, date, filter, units, crest factor values to CSV file for use with spreadsheets |

## Connections

|                      |               |
|----------------------|---------------|
| Power/Data           | USB mini-B    |
| Headphones/AC signal | 3.5mm stereo  |
| Sensor               | 4 pin Lumberg |

## Environmental

|                       |              |
|-----------------------|--------------|
| Operating temperature | 0 to +45°C   |
| Storage temperature   | -20 to +60°C |

## Power

|              |   |
|--------------|---|
| Charger      | 100-240V/5V 1A USB with 4 adaptors                    |
| Battery      | Li-ion 3.7V   |
| Battery life | >18 hours   |
| Power status | Battery icon indicates charging status, battery level |

## Dimensions

|                  |                 |
|------------------|-----------------|
| Size (L x W x H) | 130 x 78 x 28mm |
|------------------|-----------------|

## Accessories

|            |                                   |
|------------|-----------------------------------|
| MTN/VM330D | Vibration meter                   |
| MTN/2100-X | Probe                             |
| MTN/MM001  | Magnet                            |
| MTN/PS002  | 4" ¼"-28UNF Spike                 |
| MTN/CA476  | Coiled sensor cable               |
| MTN/CA477  | USB A to mini USB B cable         |
| MTN/BT004  | Worldwide adaptor with 4 adaptors |
| MTN/HE016  | Carry case                        |

For pricing or any further information, please contact Omni Instruments Ltd.