

The MTN/VM220 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 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/VM220



## 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
- 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
<i>Different ranges available</i>	

Modes	RMS
	Peak
	Peak-peak
	Crest factor
	Bearing acceleration
	Bearing velocity

### ISO10816-3

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

<span style="color: red;">■</span>	Unacceptable
<span style="color: orange;">■</span>	Unsatisfactory
<span style="color: yellow;">■</span>	Satisfactory
<span style="color: green;">■</span>	Good

### Frequency range

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

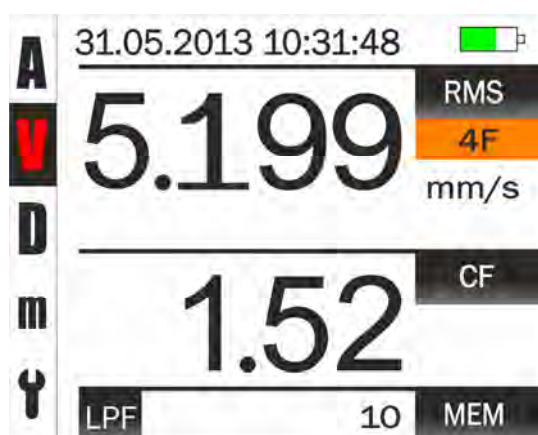
## Carrying case



## Dimensions



## VM220 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
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### Connections

Power	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	>20 hours

Power status	Battery icon indicates charging status, battery level
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### Dimensions

Size (L x W x H)	130 x 78 x 28mm
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### Accessories

MTN/VM220	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
MTN/HB039	Handbook

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