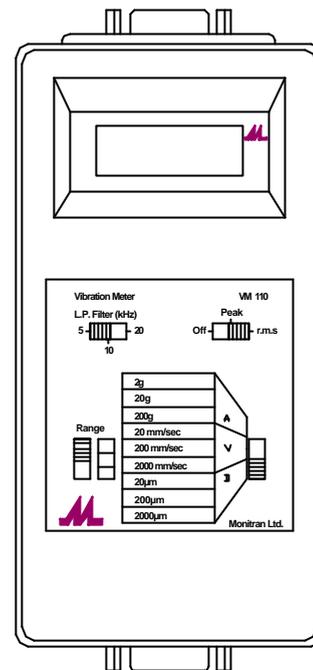
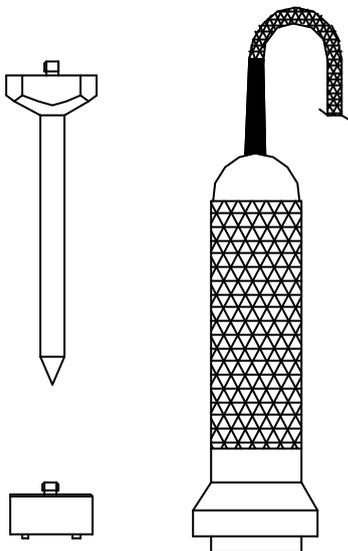




# MTN/VM110

## Hand Held Vibration Meter

- Multiple Measurements
- LCD Display
- AC or DC Outputs
- Carrying Case
- Battery Powered



**Standard Vibration Meter, Probe & Accessories**

The MTN/VM110 Vibration Meter is a battery powered, portable instrument designed to operate with a constant current type accelerometer (10mV/g sensitivity) to make vibration measurements simple and convenient.

Both RMS and Peak detection of acceleration, velocity and displacement can be made in three ranges.

A switched low pass filter for the reduction of wide band noise is provided.

An AC output via a 'D' type output socket allows the connection of additional filters or a signal analyser. A DC output is also provided to drive a chart recorder.

## Standard Package

ORDER CODE PART NO.	DESCRIPTION
MTN/VM110	VIBRATION METER
MTN/2100	HAND HELD PROBE
MTN/MM001	MAGNETIC BASE ADAPTER
MTN/PS001	HAND HELD SPIKE ADAPTER
OTHER ACCESSORIES AVAILABLE	

# Technical Specification

Measurement Ranges	Acceleration: 2g, 20g, 200g Velocity: 20mm/sec, 200mm/sec, 2000mm/sec Displacement: 20µm, 200µm, 2000µm
Frequency Range	Upper Frequency, selectable low pass filters of 5kHz, 10kHz, 20kHz Lower Frequency fixed, Acc. 5Hz, Vel. 10Hz, Dis. 15Hz
Detector	Switch selectable: RMS or Peak
Display	12.7mm, 3½digit LCD. 3 readings per second
Accuracy (10 mV/g Input)	Figures are for the VM110 only, since input transducers will affect the overall system accuracy. All readings are ±1 digit added to the following full-scale errors. Acc. 1.5% RMS; 3% Peak; Vel 2.5% RMS; 4% Peak; Dis 3.5% RMS; 5% Peak (9% at 10kHz)
Equivalent Input Noise	The equivalent input noise is the lowest measurable signal level in the range due to internally generated electrical noise.

	<u>RMS Noise</u>	<u>Peak Noise</u>
Acc: 2g range; 2mg		6mg
20g range; 2mg		6mg
200g range; 20mg		60mg
Vel: 0.1mm/sec		0.3mm/sec
Dis: 0.2µm		0.6µm

Inputs	Various accelerometers can be used in conjunction with the VM110. For more details contact the sales office.
Outputs	AC: 200mVac, full range as selected. DC: 200mVdc, full range as selected.
Power	2 x PP3 9V batteries. Battery low warning indicator on display. Battery life is approximately 15 hours dependent on battery type.