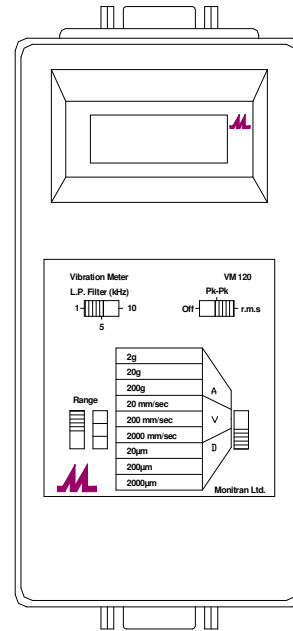
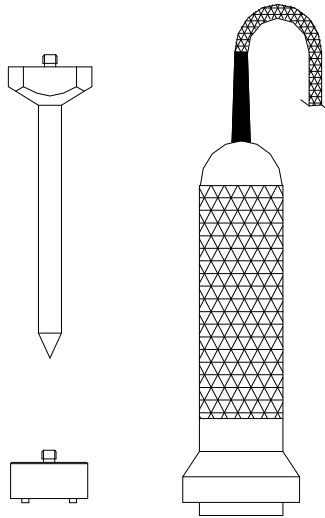




## MTN/VM120

### Hand Held Vibration Meter

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



**Standard Vibration Meter, Probe & Accessories**

The MTN/VM120 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-to-Peak detection of acceleration, velocity and displacement can be made in three ranges. (MTN/VM110 is peak detection)

A switched low pass filter for the reduction of wide band noise is provided, having lower cut-off frequencies than the MTN/VM110

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/VM120	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 1kHz, 5kHz, 10kHz Lower Frequency, Acc. 5Hz, Vel. 10Hz, Dis. 15Hz																		
Detector	Switch selectable: RMS or Peak-to-Peak																		
Display	12.7mm, 3½ digit LCD. 3 readings per second																		
Accuracy (10 mV/g Input)	Figures are for the VM120 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% Pk-Pk: Vel. 2.5% RMS; 4% Pk-Pk: Dis. 3.5% RMS; 5% Pk-Pk. (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. <table border="0" style="margin-left: 40px; margin-top: 10px;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>RMS Noise</u></th> <th style="text-align: center;"><u>Pk-Pk Noise</u></th> </tr> </thead> <tbody> <tr> <td>Acc: 2g range</td> <td style="text-align: center;">2mg</td> <td style="text-align: center;">12mg</td> </tr> <tr> <td>20g range</td> <td style="text-align: center;">2mg</td> <td style="text-align: center;">12mg</td> </tr> <tr> <td>200g range</td> <td style="text-align: center;">20mg</td> <td style="text-align: center;">120mg</td> </tr> <tr> <td>Vel: 0.1mm/sec</td> <td></td> <td style="text-align: center;">0.6mm/sec</td> </tr> <tr> <td>Dis: 0.2µm</td> <td></td> <td style="text-align: center;">1.2µm</td> </tr> </tbody> </table>		<u>RMS Noise</u>	<u>Pk-Pk Noise</u>	Acc: 2g range	2mg	12mg	20g range	2mg	12mg	200g range	20mg	120mg	Vel: 0.1mm/sec		0.6mm/sec	Dis: 0.2µm		1.2µm
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200g range	20mg	120mg																	
Vel: 0.1mm/sec		0.6mm/sec																	
Dis: 0.2µm		1.2µm																	
Inputs	Various accelerometers can be used in conjunction with the VM120. 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.																		