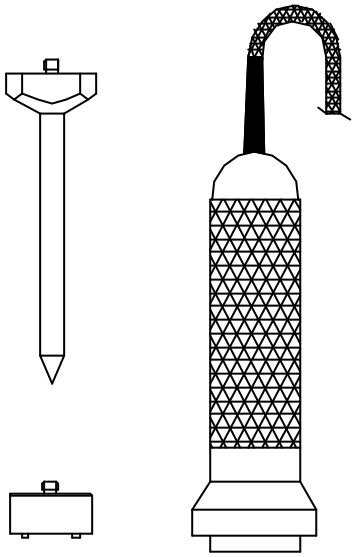
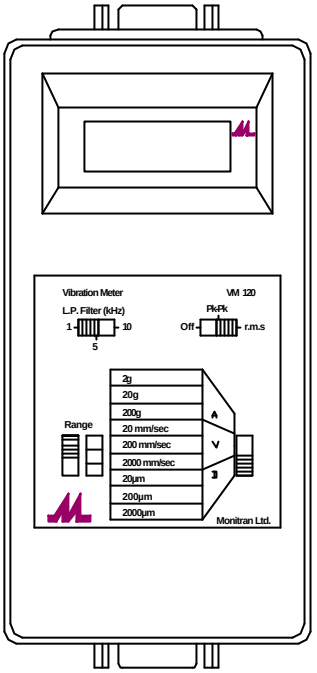
MONITRAN
SENSORS FOR YOUR INDUSTRY

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	

Monitran Ltd Monitor House Hazlemere Rd Penn Bucks UK HP10 8AD
Tel: +44 (0) 1494 816569 Fax: +44 (0) 1494 812256 email: info@monitran.co.uk www.monitran.co.uk

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, 3½digit 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.	

	RMS Noise	Pk-Pk Noise
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

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.