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# DATA-SHEET



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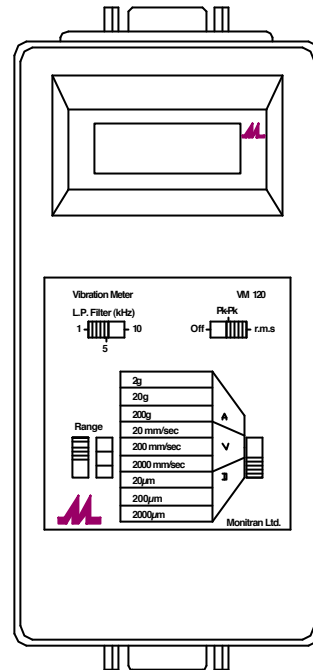
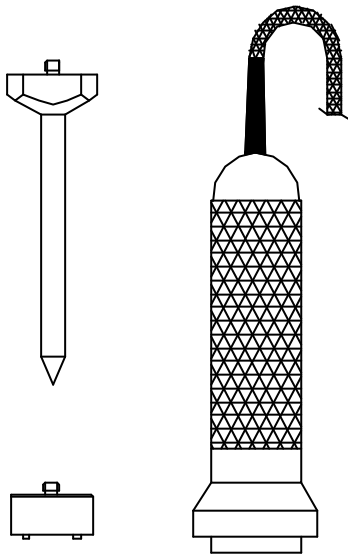
**WHY BUY**  
WHEN YOU CAN HIRE



## 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	



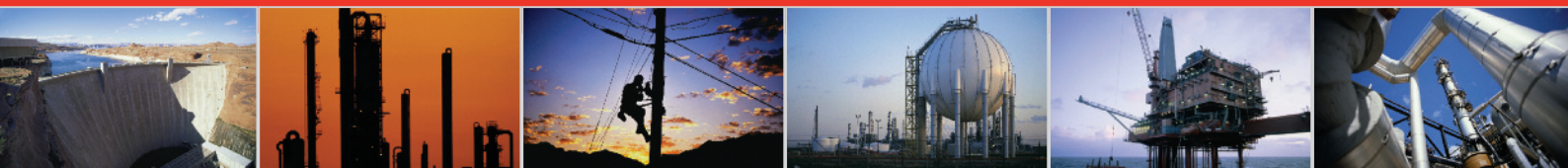
# Technical Specification

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, 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.

	<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

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.

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## OUR COMMITMENT TO YOU

### A wealth of knowledge and experience.

You can take advantage of expert advice to ensure you get the best, most appropriate and cost effective equipment for the job. We supply a wide variety of industries, so if there is another way to do the job or save you time and money we'll pass on the benefit of our experience for free.

### Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

### Top quality equipment from major manufacturers.

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### We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

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\*subject to availability and conditions

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LAB NO. 0535



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Inlec UK Ellerbeck Way, Stokesley Business Park, Stokesley N Yorkshire TS9 5JZ United Kingdom



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