

vPod Lite

Your intelligent vibration meter solution

- Microprocessor-based instrument
- Measures vibration, acceleration, velocity and displacement
- Large backlit LCD screen
- Easy to operate with one button selection of unit system (Metric, English) and vibration unit (velocity, displacement, acceleration).
- Smart display shows vibration unit, detection and battery power
- Auto detects accelerometer and cabling condition
- 24 bit high precision A/D converter and non-linear compensation for high accuracy
- Conform to ISO 2954 and ISO 10816 standards
- IP 65 rated dust and splash-proof housing
- Each meter supplied with full band calibration certificate

The vPod Lite vibration meter provides intelligent measurements in many demanding environments. More powerful than analog meters, the vPod Lite comes standard with a high precision 24 bit analog / digital converter for measurement accuracy.

The built-in microprocessor makes this meter intelligent-providing the user with auto-detection accelerometer and cabling conditions which are shown in the upper left corner of the LCD screen, and battery power in the bottom left corner.

The vPod Lite's easy to view backlit display make this a meter of choice even in dark environments. Designed for your everyday maintenance work, the vPod Lite is an affordable measurement solution.





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Vibration meter

A/D converter	24 bit
CPU	ADI ADuC847
Displacement range	0~1999 μm (0~78.7mil) , p-p (10~1KHz BP)
Velocity range	0.0~199.9 mm/s (0~7.87 in/s), 0-p (10~1KHz, ISO2954, ISO 10816)
Acceleration range	0.00~19.99 g, rms (10 Hz HP)
Selectable units	Acceleration: g(rms), g(peak), m/s ² (rms), m/s ² (peak) Velocity: mm/s(rms), mm/s(peak), in/s(rms), in/s(peak) Displacement: μm (p-p), mil(p-p)
Displacement accuracy	$\pm 5\%$ (10 ~ 1 kHz)
Velocity accuracy	$\pm 5\%$ (10 ~ 1 kHz)
Acceleration accuracy	$\pm 5\%$ (10 ~ 10 kHz)
Battery indicator	Low/ 25%/ 50% / 75%/ full, graphical indicator
Sensor bias indicator	Normal/ open/ short, graphical indicator
Back light	LED back light, auto off
Sensor's sensitivity range	(7~1300mV/g by user input)
Housing rating	IP 65, with EMI protection
EMI protection	CE mark
AC output	$\pm 2.8\text{V}$
Power supply	9V alkaline battery (about 40 hours operation)
Auto power off	10 minutes after pressing any key
Display	120x32 graphic mode LCD
Analog Input connector	4 pin LEMO connector
AC output connector	2 pin LEMO connector
Size	172x92x32mm (6.77x3.62x1.25 inch)
Weight	About 300 gram (0.66 lb) (including battery)

Accelerometer

Sensitivity	100 mV/g typical
Frequency response	3 Hz ~ 5 kHz $\pm 5\%$
Resonance frequency	30 kHz
Shock limit	5000 g peak
Broadband noise	700 μg

Standard accessories (for vibration meter kit)

Kit contains 1 ea: accelerometer, coiled accelerometer cable, high-strength magnetic base, quick connect detection spike, soft case, hard case, user manual



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