G-TECH

vPod Vibration Meters



G-TECH Instruments Inc.

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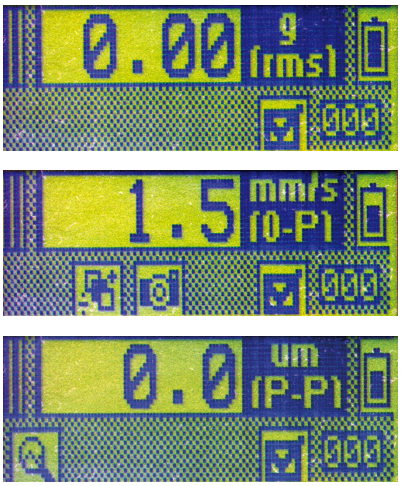


INTRODUCTION

The vPod and vPod II are microprocessor-based vibration meters.

Powered by the microprocessor, this family of meters can easily measure average, hold or peak hold vibration data, and display them with user selectable unit/detection. The battery charge indicator and sensor bias indicator is also a standard feature of vPod and vPod II.
vPod II has built-in memory for storing up to 1000 archive data points. It can transfer data through the USB port with a PC.

GAIN AND PRECISION READING



For those precision machines that have very low vibration levels, a precision reading is necessary. In addition to an extra quiet accelerometer that is supplied as a standard accessory, both vPod and vPod II incorporate a built-in gain circuit to amplify small vibration signals and show the reading in precision mode when you turn the gain mode on. This one button gain function allows the user to increase precision by one decimal place.

BEARING CONDITION MEASUREMENT

Each vPod and vPod II can measure vibration levels in acceleration, velocity or displacement. The users can select to display the vibration results in their preferable units and detections as shown in the photo above.
The vPod and vPod II comes standard with a built-in 500 Hz high pass filter. This is significant because most roller element bearings' parts are located between 500 Hz ~10kHz. This high pass filter method has been proven to be very useful in identifying a bearings condition.

MEMORY FOR DATA STORAGE (vPod II)

With the incorporation of built-in EEPROM memory, a vPod II meter can store up to 1000 sets of vibration data. These saved data points can be recalled by entering the meter's REVIEW mode. Every vPod II comes with an USB interface program for downloading the saved data from memory to a PC for post analysis or report building.





OPTIONAL PDM SOFTWARE: TRENDEX

Trendex software coupled with the v-Pod II is a cost effective solution to your management of machine health condition. Until now, most solutions required very expensive analyzers and software analysis programs that collected more data than was necessary for most basic predictive maintenance projects.

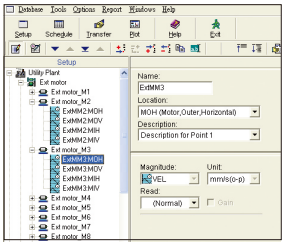
Trendex is setting the new standard in route collection asset management. With simple to use one-click reports, downloading pre-defined routes, trending and alarm analysis, Trendex provides a very cost effective strategy to your data collection needs.

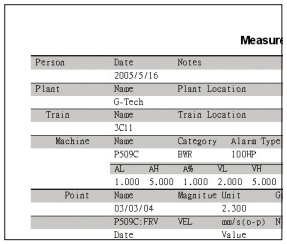
Scheduled Measurement- With Trendex, you can easily download predefined routes.

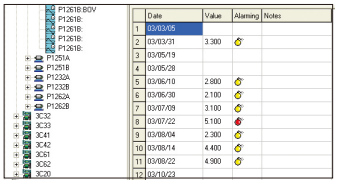
Trending and Alarm Analysis:- With Trendex, easily review and display trending plots showing the history of vibration and alarm conditions as well as a percentage of change.

Automatic Reports- With trendex, you can build a custom report for simple one click reports.











THERMO METER:

The Trendex software supports both vibration and temperature data. In the route data collection mode, vPod II also can connect to an optional thermo meter for collecting temperature data.

FUNCTION	SPECIFICATION			
	vPod II	**vPod**	**vPod 17243**	**vPod Lite**
Displacement	10~1kHz	10~1kHz	10~1kHz	10~1kHz
Velocity	10~1kHz	10~1kHz	10~5kHz	10~1kHz
Acceleration	10~10kHz	10~10kHz	2k~10kHz	10~10kHz
ISO	ISO2954	ISO2954	ISO17243-1 &-2	ISO2954
Selectable units	Displacement: μm (p-p), mil (p-p)			
	Velocity: mm/s (rms), mm/s (0-p), in/s(rms), in/s (0-p)			
	Acceleration: g (rms), g (0-p), m/s² (rms), m/s² (0-p)			
Memory	Memory for 1000 measured data	×	×	×
Review function	Recall and display the saved data	×	×	×
USB interface	Download / Upload route data	×	×	×
Accuracy	±5% (10 ~ 10 kHz)			
Battery indicator	Low/ 25%/ 50% / 75%/ full, graphical indicator			
Sensor bias indictor	Normal/ open/ short, graphical indicator			
Back light	LED back light, auto off			
Sensor's sensitivity	7~1300mV/g (adjustable)			
Housing rating	IP 65, with EMI protection (CE certification)			
AC output	±2.8V			
Power supply	9V alkaline battery x1			
Operation time	About 40 hours			
Auto power off	10 minutes without pressing any key			
Display	120 x 32 graphic mode LCD			
Analog input connector	4 pin plug-in type connector			
AC output connector	2 pin plug-in type connector			
Size	172 x 92 x 32 mm (6.77 x 3.62 x 1.25 inch)			
Weight	About 300 gram (including battery)			
Hold function	Freeze the display instantly			×
Average function	Display the averaged value			×
Peak hold function	Display the maximum value			×
Bearing condition function	Switch to 500Hz high-pass filter to identify bearing status		×	×
	with 500Hz~10kHz vibration.			
Gain	x10, and increase the reading precision (by 1 decimal place)			×
Displacement range	**Standard:** 0~1999 um (0.00~78.7 mil), p-p			
	Gain: 0.0~199.9 um (0.00~7.87 mil), p-p			×
Velocity range	**Standard:** 0.0~199.9 mm/s (0.00~7.87 in/s), 0-p & rms			
	Gain: 0.00~19.99 mm/s (0.000~0.787 in/s), 0-p & rms			×
Acceleration range	**Standard:** 0.0~199.9 m/s² (0.00~19.99 g), 0-p & rms			
	Gain: 0.00~19.99 m/s² (0.000~1.999 g), 0-p & rms			×
Bearing condition range	**Standard:** 0.0~199.9 m/s² (0.00~19.99 g), 0-p & rms		×	×
	Gain: 0.00~19.99 m/s² (0.000~1.999 g), 0-p & rms		×	×

Each System comes equipped with: 1 ea. : Hard carrying case, Soft Carrying case, Coiled cable for accelerometer, Accelerometer, Magnetic base, Spike detection probe, User manual, Calibration report, Warranty sticker.

Optional : Acceleration gauge insulation washer (for all series), Headphones (for all series), AC output signal cable (for all series), USB transmission cable (vPodII standard accessory), Trendex predictive maintenance software (for vPodII), Non-Contact Thermometer, measuring range 0°C~200°C (for vPodII).

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