

Feature	Specification	VPod	VPod II
Displacement	0~1999 um, p-p (10~1KHz BP)(0.00~78.7 mil)	✓	✓
Velocity	0.0~199.9 mm/s, 0-p (10~1KHz, ISO2954)(0.00~7.87 in/sec)	✓	✓
Acceleration	0.00~19.99 g, rms (10 Hz HP)	✓	✓
Bearing Condition	0.0 ~ 199.9 mm/s (0-p) (500Hz ~2kHz)(0.00~7.87 in/sec)	✓	✓
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	(100mV/g ±30% adjustable)	✓	✓
Housing rating	IP 65, with EMI protection	✓	✓
AC output	2.8V	✓	✓
Power supply	9V alkaline battery x1 (about 30 hours operation)	✓	✓
Auto power off	5 minutes after pressing any key	✓	✓
Display	120 x 32 graphic mode LCD	✓	✓
Size	180 x 92 x 32 mm(7.1 x 3.6 x 1.2 in)	✓	✓
Weight	About 300 gram (including battery)	✓	✓
Hold function	Freeze the display instantly	✓	✓
Average function	Display the averaged value of the latest 10 data	✓	✓
Peak hold function	Display the maximum value	✓	✓
Gain	x10, and increase the reading precision (by 1 decimal place)	✓	✓
Displacement w/ gain	0.0~199.9 um, p-p(0.00~7.87 mil)	✓	✓
Velocity w/ gain	0.00~19.99 mm/s, 0-p(0.000~0.787 in/s)	✓	✓
Acceleration w/ gain	0.000~1.999 g, rms	✓	✓
Memory	Memory for 1000 measured data		✓
Review function	Recall and display the saved data		✓
RS-232C interface	Download a pre-defined route from a PC, or upload archived data to a PC		✓

## vPod and vPod II Smart Vibration Meters



<http://www.benstone.com>

### Each System comes equipped with:

1 each: Hard carrying case, Soft Carrying case, coiled cable for accelerometer, WR786A accelerometer, magnetic base, user manual, and 1 ea. RS-232C cable (vPodII only).

Optional Software: Trendex

Optional thermo meter and cable: Optex PT-3S Portable Non-Contact Thermometer, 0~200°C



# vPod and vPod II Smart Vibration Meters



## 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 RS-232C 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 - 2 kHz. 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 RS-232C interface program for downloading the saved data from memory to a PC for post analysis or report building.



## OPTIONAL PDM SOFTWARE: TRENDX

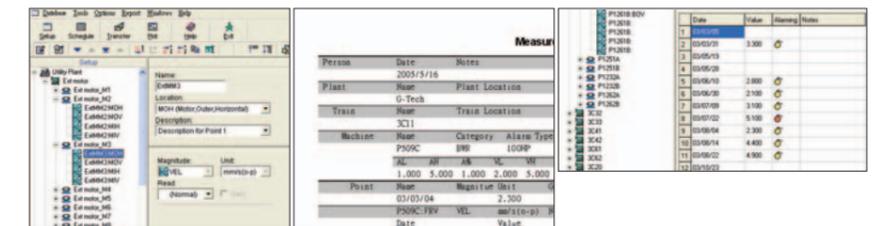
Trendx software coupled with the v-Pod II is a cost effective solution to your management of machine health condition. Until now, most solutions required very expensive analyzers and software analysis programs that collected more data than was necessary for most basic predictive maintenance projects.

Trendx 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, Trendx provides a very cost effective strategy to your data collection needs.

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

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

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



## THERMO METER:

The Trendx 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.