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Description: Compact, light, portable, CF (Compact Flash) Card-type Vibration Meter

Included (Standard) Components

- Model VP-2001A Accelerometer with Direct 1.5m cable and Plug
- Model VB-2001 Probe for Pickup, length 55mm
- Model C-2004 Case
- Model IM-2004 User Guide

Note: - Pocket PC excluded



Features

- Overall Vibration Measurement: Acceleration, Velocity, Displacement (amplitude), and RMS/PEAK mode can be measured simultaneously.
- FFT Spectrum Analysis: Measure and analyse by 1-set with FFT function.
 (High-resolution of 1600 lines)
- Time Waveform Measurement: Records the waveform up to 10 sec.
- Bearing Checker Function: Check bearing condition by connecting the optional Earphone/Headphone.
- Vibration Evaluation: Immediate criterion (vibration severity and bearing condition) judgment.
- Measurement Versatility: 'Electro-dynamic Velocity Pickup' optional sensor for minute displacement measurement.
 'Piezo-resistive Accelerometer Pickup' optional sensor for low band vibration measurement.
- Utility Application: 'Memory Check Screen', 'Saved Data List Display Search', and 'Vibration Mini Dictionary'.
- Data Save: Easily record and save data (overall value, waveform, FFT data) to optional Pocket PC/PDA (Personal Digital Assistant).
- Use of PDA Application: CardVibro Neo's display is interchangeable with the PDA allowing PDA functions such as 'Calculator' and 'Calendar' to be utilised.
- Use with Personal Computer: Easily transfer saved data from PDA to Personal Computer with the use of the PDA's cradle and Microsoft ActiveSync software. The optional Data Extract Software has the ability to save the data in 'csv' format making it easily processed with commercial application software.

General Specifications

Suitable Pocket PC:	Windows Mobile 2003 Operating System, ARM PXA255 400MHz Processor, 64MB RAM
Interface with Pocket PC:	CF (Compact Flash) card with Type II slot
Power Supply:	3.3V (supplied from Pocket PC)
Temperature Range:	0 - 45°C
Humidity Range:	30 - 90% RH (not due condensation)
Dimensions of card:	60 x 42.1 x 16.9mm
Weight of card:	Approx. 25g
Shape:	Conforms to CF Card TYPE II, Card Type
Colour:	Black
Pickup Input (PU IN):	AC voltage signal Max±2.5V Input Terminal: 8-pin modular jack (RJ-45)
Raw Waveform Output (PU OUT):	AC voltage signal Max±2.5V Outputs the voltage signal which the sensor input signal is amplified by the used range magnification (x1/x5/x20/x100) Output Terminal: 2.5ø mini-jack
Sampling Frequency:	MAX. 76.8kHz (changes according to mode) 76.8kHz/38.4kHz/19.2kHz/9.6kHz
Aliasing Filter:	20kHz/2kHz (changes according to mode)
A/D:	16bit

Measurement Specifications

Overall Measurement:	Select Simultaneous Meas. / Single Meas.
Judgement:	ISO Vibration Evaluation (ISO-10816 [JIS-B-0906] standard) Bearing Evaluation
FFT Spectrum Analysis:	Lines of Resolution: Max. 1600 lines Trigger function Dominant frequency component of highest 5 display function
Time Waveform Measurement:	Measuring Time: Max. 10 second Trigger function
Notes Function:	Memo for every Machine, Measuring Point can be recorded. (Data of rotational number, temperature, power, pressure etc other than vibration can be saved)
Data Save Control:	Saves the information of machine name, measuring point, detected direction, note, measuring data, measuring condition etc in addition to the measured data. Pocket PC (64MB RAM) can save OA:2000 points, FFT:1000 points, WV:5MB (with the use of external memory e.g. SD card, more data can be saved)

Specifications with Model VP-2001A Accelerometer

Measurement Type	Acceleration:A	10 - 10kHz (fmax is changeable)
Frequency Range (Filter)	Velocity:V	10 - 1kHz
	Displacement:D	10 - 150Hz
	Enveloped Acceleration:E1	DC - 50Hz (5 - 100Hz [BPF])
	Enveloped Acceleration:E2	DC - 500Hz (50 - 1kHz [BPF])
	Enveloped Acceleration:E3	DC - 5kHz (500 - 10kHz [BPF])
	Enveloped Acceleration:E4	DC - 10kHz (5k - 20kHz [BPF])
Measuring Range:	Max. Acceleration	500m/s ²
Range:	Acceleration:A	4 range, 10, 50, 200, 1000m/s ² , Fixed/Auto
	Envelope:E1, E2, E3, E4	4 range, 10, 50, 200, 1000m/s ² , Fixed/Auto
	Velocity: V	4 range, 10, 50, 200, 1000mm/s, Fixed/Auto
	Displacement: D	4 range, 50, 250, 1000, 5000μmp-p, Fixed/Auto

Specifications of Model VP-2001A Accelerometer

Detecting Method:	Pre-amp is built-in. Compression type, shear type
Power Supply:	±5VDC
Voltage Sensitivity:	2.0 [mV/(m/s ²)]
Resonance Frequency:	20kHz approx.
Frequency Range:	3 - 10,000Hz
Max. Acceleration:	500 m/s ²
Max. Allowable Acceleration:	5000 m/s ²
Max. Output Voltage:	±1V
Output Impedance:	Below 100Ω
Used Temperature:	20°C to 80°C
Material:	SUS
Weight:	60g approx.
Mounting Screw:	M6, P = 1, depth 5, internal thread
Cable:	Direct leading Ø4, 1.5m
Connector:	8-pin modular plug
Dimensions:	Ø20 x 40mm
Structure:	Dust-proof, spray proof