



"Your Direct Source for Plant Maintenance, Reliability, Test & Measurement"

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STD-500

Vibration Data Collector

Multifunctional and affordable
Easy-to-operate

Vibration pen features:

- Overall vibration measurement and Built-in FFT
- Stores up to 500 points (LF waveforms or envelope waveforms)
- Route and off-route data acquisition
- PC connection via USB for detailed analysis



Easy and quick operation

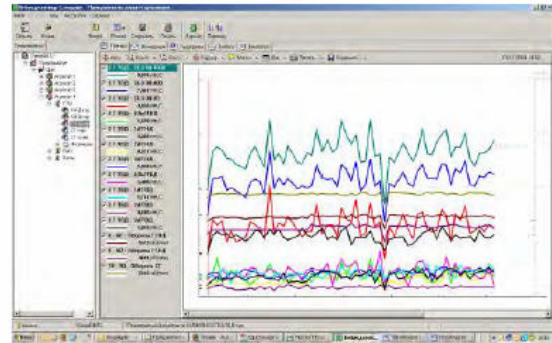
Pocket size and light weight, built-in sensor and handy design make this data collector always within reach, ready to measure vibration and control machine condition. Contrast graphic display with backlight and built-in FFT are designed for easy on-site condition monitoring and data analysis.

Auto shutdown feature significantly increases battery lifetime.



Multifunctional

From quick on-site analysis to detailed data processing on your PC including spectrum analysis, trends creation, detection of location and severity of faults, imbalance, misalignment, bed belt, soft foundation and maintaining machinery condition database.



ROUTE and OFF-ROUTE usability

Uploading routes from VibroDesigner-Standard Analysis Software facilitates both data acquisition and creation of a unified repository for diagnostics data automatically uploaded onto your computer.

Easy-to-operate

- Only two buttons and intuitive menu make operation simple and convenient.
- Turn on your Data Collector.
- Select a Route or Off-route measurement point.
- Put a tip of accelerometer against the measurement point and press ENTER button.
- When finished, "MEASUREMENT IS COMPLETED" message is displayed on the screen.
- The measured value is shown, and collected waveform is saved in the memory.

```
MACHINE 1
004 04W COUPL-VERI
MEAS. | - . - - - RMS
MM/S
```

```
MEASUREMENT
IS COMPLETED.
```

```
MACHINE 1
002 02F HIGH-HOR
ANALYS| 0.243 RMS
IN/S
```

```
MM/S | 0.094
X23.1
V0.10
```

Specification:

Sensor	integrated piezoaccelerometer
Measurement units	Acceleration, Velocity, Displacement (P-P, Peak, RMS)
Measurement range	0,5 to 70 mm/s (0,02 to 2,76 in/s) RMS
Low frequency measurement	10 to 1000 Hz (± 1 dB)
Sampling	8192
Internal FFT	3200 lines
Units	Metric and English
Memory	8 MB, up to 500 waveforms
Display type	graphic, monochrome, with backlight
Display size	122x32 px, 57x17 mm
PC connection	USB
Power Supply type	NiMH, rechargeable
Intrinsically safe	1ExibIIBT3X
Housing protection	IP54
Operating Temperature	- 4 ... + 122 F (-20 ... +50 C)
Humidity	Up to 90%
Dimensions	7,3 x 1,4 x 0,8 in
Weight	5.3 oz



SPECIFICATION

Measurement channels:	2 analog inputs, 1 tacho input
Sensor type:	VP-9, VP-11, ICP sensors, tacho-optical sensors, lasers, proximity switches, stationary key phasors, connection to on-line condition monitoring systems
Measurement parameters:	RMS, Peak, Peak-to-Peak, time waveform, spectrum of acceleration, velocity, displacement, envelope waveform, envelope spectrum, orbits, Run-up/Coast-down, real time measurement; route and off-route data acquisition
Frequency range:	Fmin: 0 ... Fmax Hz Fmax: 500 Hz ... 32 kHz
Measurement range (VP-9, RMS):	Displacement: 0 ... 10 mm Velocity: 0 ... 100 mm/s Acceleration: 0 ... 500 m/s ²
Spectrum resolution:	3200, 6400, 12800, 25600 lines
Sampling:	8192, 16384, 32768, 65536 points Averaging: 0 ... 256 Averaging type: linear
Threshold (per each channel):	2
Memory Flash:	256 MB (option 2 GB); RAM: 32 MB
ADC:	2x24 bits Dynamic range: up to 109 dB Sample rate: up to 82 kHz
Accuracy:	±1%
Balancing:	Shaft speed: 10 ... 60 000 RPM Measurement types: acceleration, velocity, displacement Number of balancing planes: 1 or 2
Display:	graphic LCD, monochrome, with backlight, 320x240, 3.8"
Temperature:	-20 ... +50°C
Size:	6.7" x 4.3" x 1.4" (170 x 110 x 35 mm)
Weight:	0,700 kg
Protection class:	IP54
Power supply:	Ni-MH, rechargeable
Operating time:	18 hours