

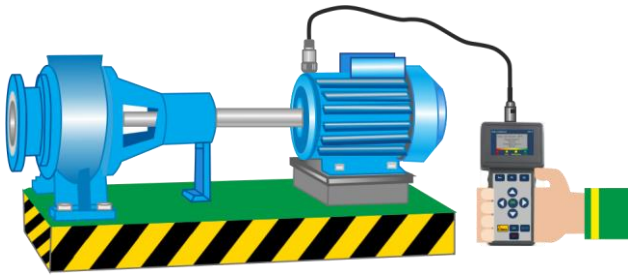
The VD-5 is a route-based data collector, compact, rechargeable, handheld, vibration meter designed to conform to ISO10816-3 based measurements and operate with a constant current accelerometer providing an accurate vibration measurement. Included optional 1 / 2 step internal integrators for measuring velocity and displacement simultaneously. Features contain the ability to store up to 4000 time-stamped readings, including; overall values and time signal to transmit to computer for diagnostic analysis, all on an easy to read white graphic LCD display.

VD-5 Data Collector



Features

- NiMH re-chargeable cell pack typically 6 hours continuous use
- User-selectable units and types Measurement
- High visibility graphic LCD display.
- RMS, peak or peak-peak readings and show in the free point of rout acceleration, velocity and displacement all three together
- Route and off-route data acquisition
- Data logging, save up to 4000 overall measurements
- Overall value & spectrum in route
- Advanced analysis software Vibsens-Pro
- ICP™ sensor interface
- ISO built-in Alarms
- Data transfer to PC via USB and serial port.



ISO10816-3

8 modes for machine classes I, II, III, IV, rigid/fixed foundations

Visual indication of machine status:

VIBRATION SEVERITY PER ISO 10816						
Machine		Class I small machines	Class II medium machines	Class III large rigid foundation	Class III large soft foundation	
Vibration Velocity Vrms	in/s	mm/s				
	0.01	0.28				
	0.02	0.45				
	0.03	0.71		good		
	0.04	1.12				
	0.07	1.80				
	0.11	2.80		satisfactory		
	0.18	4.50				
	0.28	7.10		unsatisfactory		
	0.44	11.2				
0.70	18.0					
0.71	28.0		unacceptable			
1.10	45.0					

- Unacceptable
- Unsatisfactory
- Satisfactory
- Good

Accessories

Vibration Meter :VD-5

Accelerometer-Sensor: 100mv/g

magnet mounting & coiled cable

Charger Adapter

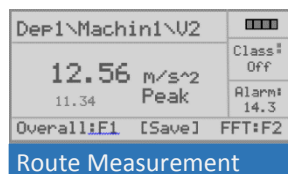
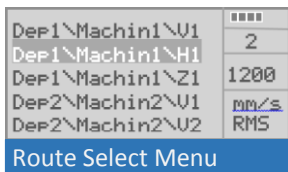
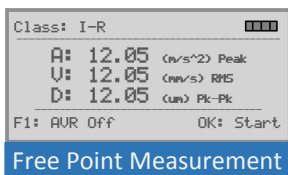
USB A to USB B cable for route download

Serial port cable for online monitoring

Manual

Carrying case

Transducers	
Standard vibration transducer	Accelerometer type CTC™ AC-102
Sensitivity Frequency range (+/-3db resonance frequency) Mounting Cable length	100mv/g max measuring range ±50g 1-15000Hz -50°C ... +121°C Magnet holder, hand held or measuring pointer 1m
Vibration input electrical specifications	
Maximum input signal Sensitivity, standard settings Current- and voltage supply to transducer	+/-2V Peak Accelerometer 100mV/g +4mA constant current at max 24V
Measuring properties	
Total vibration level:	
Selectable frequency ranges Selectable units (Metric/ Imperial) Overall type Automatic comparison with selectable alarm level	ISO 10-1000Hz mm/s, um, mm, m/s^2, g in/s, mils, g RMS, Peak, Pk-Pk Yes, 1 limit value
Online Measurement	Downloaded from the Vibsens-PRO PC-software
Including Total Vibration level of Acceleration , Velocity ,Displacement	1 second' period time
Route	Downloaded from the Vibsens-PRO PC-software
Memory capacity	Approximately 1000 measuring points, including Total vibration level
Spectra in Route	
Memory capacity Frequency range Resolution	Approximately 1000 spectra 2Khz
Miscellaneous	
Dynamic measuring range processor Internal memory Display Computer communication Battery Environment temperature while unit operating Dimensions Weight	>60dB Micro processor 40Mhz 64Mb Memory Card 128*64 pixels with background light USB max 256 kbaud/s NiMH re-chargeable cell -20°C ... +50°C 105 x 201 x 41mm 400grams including batteries



Online Monitoring Vibration Values
Acceleration, Velocity, Displacement

