

FEATURES

- Measures acceleration, Velocity and displacement
- RMS, EQ PEAK and EQ P-P measurement
- Wide range of vibration measurement by using different sensitivity of accelerometers
- Excellent accelerometer for harsh environments
- Maximum/Minimum record function
- PA-01 & PA-02 Accelerometer can be change use
- Earphone output for detecting noise in machine components
- Manual memory stores up to 99 data
- Auto memory micro SD card
- USB interface allows transfer of saved data to PC

RS PRO Vibration Meters

RS Stock No.: 2543502, 2543623 & 2543624



RS PRO Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Application

- Industrial hygiene investigations
- Industrial machinery check-ups
- Manufacturing QA

General Specifications

Piezoelectric Accelerometer PA-01	
Sensitivity	5mV/(m/s ²)(±10%)
Acceleration range	200m/s ²
Amplitude nonlinearity	±1%
Frequency response	5Hz to 10kHz (±10%), 10kHz to 15kHz (±3dB)
Resonance frequency	27kHz
Transverse sensitivity	≤5%
Dimensions/Weight	46(H) x 19(D) mm / 46g
Piezoelectric Accelerometer PA-02	
Sensitivity	10mV/(m/s ²)(±10%)
Acceleration range	100m/s ²
Amplitude nonlinearity	±1%
Frequency response	5Hz to 5kHz (±10%), 5kHz to 12kHz (±3dB)
Resonance frequency	20 kHz
Transverse sensitivity	≤5%
Dimensions/Weight	52(H) x 22(D) mm / 72 g
Measurement range (using PA-01 or PA-02)	
ACC (Acceleration)	0.02 to 200m/s ² EQ PEAK 1Hz to 5kHz
VEL (Velocity)	0.3 to 1000mm/s RMS 3Hz to 1kHz 0.1 to 1000mm/s RMS 10Hz to 1kHz
DISP (Displacement)	0.02 to 100mm EQ PEAK 3Hz to 500Hz 0.001 to 100mm EQ PEAK 10Hz to 500Hz
Frequency range	
ACC (Acceleration)	3Hz to 1kHz, 3Hz to 5kHz, 1Hz to 100Hz, 3Hz to 20kHz
VEL (Velocity)	10Hz to 1kHz, 3Hz to 1kHz
DISP (Displacement)	1Hz to 500Hz, 3Hz to 500Hz
Measurement full-scale range	
For accelerometer PA-01 and accelerometers with sensitivity	1.0 to 9.9mV/(m/s ²)
ACC (Acceleration)	1, 10, 100, 1000m/s ²
VEL (Velocity)	10, 100, 1000mm/s
DISP (Displacement)	0.1, 1, 10, 100mm
Indication characteristics	
Acceleration	RMS, EQ PEAK
Velocity	RMS, EQ PEAK
Displacement	RMS, EQ PEAK, EQ p-p
Gain calibration (Accelerometer sensitivity selection establishes suitable gain)	
Setting range	0.10 to 0.99, 1.0 to 9.9, 10 to 99mV (m/s ²)
Ambient conditions for operation	
Accelerometer	-20 to +70°C, max. 90%RH
Main unit	-10 to +50°C, max. 90%RH
Manual memory	Maximum 99 data can be stored manually
Auto memory (3101, 3102)	Micro SD card
Power requirements	4 IEC R6 (size AA) batteries, AC adapter 6V (option)
Battery life (continuous use)	8 hours (approx.)
Dimensions / Weight	158(L) × 78(W) × 40(H)mm / 286g
Supplied accessories	Instruction manual, Battery, CD software, Micro-USB cable