

## 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
- Earphone output for detecting noise in machine components
- Manual memory stores up to 99 data

## RS PRO Vibration Meters

RS Stock No.: 2543500, 2543619 & 2543620



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

**Additional Information**

|                             |               |
|-----------------------------|---------------|
| <b>EAN</b>                  | 8000126233360 |
| <b>Custom Tariff Number</b> | 85371098      |

**Approvals**

|                                     |                               |
|-------------------------------------|-------------------------------|
| <b>Declarations</b>                 | MFR Declaration of Conformity |
| <b>Hazardous Area Certification</b> | ATEX / IECEx                  |
| <b>Standards Met</b>                | VDE                           |

**Similar Products**

| <b>Stock No.</b> | <b>Brand</b> | <b>Product Name</b> | <b>Type</b> |
|------------------|--------------|---------------------|-------------|
| <b>2543519</b>   | RS PRO       | VIBRATION METER     | ISOCAL      |
| <b>2543520</b>   | RS PRO       | VIBRATION METER     | DKDCAL      |