

### Measuring principle

Vibration Meter employs a piezoelectric transducer to measure vibrations of a material and displays it in one or more of displacement, velocity or acceleration values for analyzing.

### Applications

A vibration meter is used in manufacturing for machine condition monitoring, product testing and quality assurance. A vibration meter also can be used in civil engineering to measure the vibration of structures such as buildings, roads and bridges.

### Features

- Individual high-quality accelerometer for accurate and repeatable measurement.
- In accordance with ISO 2954, used for periodic measurements, to detect out-of-balance, misalignment and other mechanical faults in rotating machines.
- Acceleration, velocity and displacement measurements.
- Sturdy metal body for rugged operation.
- Wide frequency range in acceleration mode.
- RPM and frequency measurements.
- Backlit LCD display.



### Technical Specifications

| Model                         | <b>Metrix+ VM 8200 mkII+</b>  |              |
|-------------------------------|---|--------------|
| Display                       | 4-digit backlit LCD   |              |
| Transducer                    | Piezo electric accelerometer  |              |
| Velocity                      | 0.01 ~ 400.0 mm/s ; 0.000 ~ 16 inch/s                                       |              |
| Acceleration                  | 0.1 ~ 400.0 m/s <sup>2</sup> , 0.3 ~ 1312 ft/s <sup>2</sup> equivalent peak |              |
| Displacement                  | 0.001 ~ 4.000 mm equivalent peak-peak; 0.04 ~ 160.0 mil                     |              |
| R P M                         | 60 ~ 99,990 r/min   |              |
| Frequency                     | 1 ~ 20kHz   |              |
| Frequency range for measuring | Acceleration  | 10Hz – 10kHz |
|                               | Velocity  | 10Hz – 1kHz  |
|                               | Displacement  | 10Hz – 1kHz  |

|                              |   |
|------------------------------|---|
| <b>Accuracy</b>              | $\pm 5\%$ of reading + 2d   |
| <b>APO</b>                   | Enabled by user   |
| <b>Max hold</b>              | Peak Hold   |
| <b>Analog output</b>         | AC output 0 ~ 2.0V peak full scale(load resistance above 10k)   |
| <b>Power supply</b>          | 1.5V x 2 AA battery   |
| <b>Operating condition</b>   | Temperature : 0-50°C ; Humidity : below 95% RH  |
| <b>Dimensions and weight</b> | 130 x 70 x 30mm ; 305g  |
| <b>Standard accessories</b>  | Powerful rare earth magnet, measurement probe, stinger probe(cone), stinger probe(ball), manual, batteries, carrying case |
| <b>Optional accessories</b>  | PC interface  |