

# MachineryMate™ handheld vibration meter

## MAC200



Wilcoxon's handheld vibration meter helps find machine faults before they impact operation or cause catastrophic failures. The MAC200 can increase productivity and lower maintenance costs by identifying vibration problems and bearing conditions in early and late stages of failure. The simple, easy to use meter records, analyzes and displays vibration signals and comes with built-in band filters for unbalance, misalignment, and looseness. The low Hertz range allows readings on machinery running as slow as 120 RPM.

The meter assists in condition monitoring for industries including commercial and industrial HVAC, food processing, packing, petrochemical, pulp and paper, power plants and utilities. The MAC200 is a cost-effective tool with high level functionality and capability for a comprehensive picture of machinery health.

### Key features

- Built-in ISO alarms
- Easily identify bearing problems with BDU reading
- 100 and 800 line FFT spectrum
- Ruggedized IP67 case
- Full color OLED display
- High performance accelerometer with stinger

### Certifications



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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An Amphenol Company

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### SPECIFICATIONS

|   | English  | Metric                           |
|---|--|----------------------------------|
| <b>Size</b>                             | 7.95 x 2.36 x 1"   | 20 x 6 x 2.6 cm                  |
| <b>Weight (excluding magnet)</b>        | 9.8 oz   | 280 grams                        |
| <b>Environmental</b>                    |  |                                  |
| <b>Water</b>                            | IP 67 waterproof   | IP 67 waterproof                 |
| <b>Operating temperature</b>            | +32 to +122° F   | 0 to +50° C                      |
| <b>Storage temperature</b>              | -4 to +158° F  | -20 to +70° C                    |
| <b>Power supply</b>                     | 2x AA batteries  | 2x AA batteries                  |
| <b>Battery life</b>                     | 50 hours normal use  | 50 hours normal use              |
| <b>Frequency ranges</b>                 |  |                                  |
| <b>ISO</b>                              | 120 - 60,000 CPM   | 2 Hz - 1 kHz                     |
| <b>BDU</b>                              | 60 - 900,000 CPM   | 1 - 15 kHz                       |
| <b>Max frequency resolution</b>         | 1.25 Hz at 800 lines FFT setting   | 1.25 Hz at 800 lines FFT setting |
| <b>Displayed amplitude units</b>        |  |                                  |
| <b>Acceleration</b>                     | g  | g                                |
| <b>Bearing damage</b>                   | BDU  | BDU                              |
| <b>Velocity</b>                         | in/sec   | mm/sec                           |
| <b>Displayed frequency units</b>        | Hz   | CPM or RPM                       |
| <b>Input range</b>                      | ±50 g  | 490 m/sec <sup>2</sup>           |
| <b>Dynamic range, 0.01 g resolution</b> | 72 dB  | 72 dB                            |
| <b>VA bands</b>                         | Auto set-up  | Auto set-up                      |
| <b>Accelerometer connection</b>         | internal sensor  | internal sensor                  |
| <b>Display</b>                          | OLED full color, high contrast   | OLED full color, high contrast   |
| <b>Selectable languages</b>             | English (default), Spanish, Portuguese, French, Italian, Turkish, Chinese, Japanese and Korean |                                  |

### Contact

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### Accessories supplied:

- MAC002 protective boot with magnets
- MAC003 carrying case with insert
- Extended stinger

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