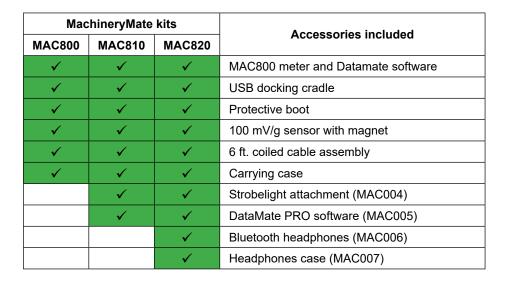
# MachineryMate® vibration meter kits



# MAC800 series

Wilcoxon's handheld MAC800 vibration meter analyzes and displays vibration signals, helping users identify machine faults before they impact operation or lead to failure. The meter comes with built-in band filters for unbalance, misalignment and looseness, and its low Hz range allows readings on machinery running at speeds as slow as 120 RPM.

When used with the included DataMate software, the MAC800 kit can become the foundation of a plantwide condition monitoring program, supporting up to ten machines. Upgrading to DataMate PRO allows monitoring of up to 1,000 machines. Other options for extended capabilities include Bluetooth headphones for auditory monitoring and a strobelight attachment for run speed analysis.



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## **Key features**

- · Data trending software
- · Internal data storage
- Built-in ISO alarms and Bluetooth capability
- IEPE power enable/disable for externally powered sensors
- Standard accelerometer with magnetic mount and coiled cable
- BDU reading to easily identify bearing problems
- 800 line FFT spectrum
- Manufactured in an approved ISO 9001 facility

### Certifications



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

# MachineryMate vibration meter kits



# MAC800 series

### **SPECIFICATIONS**

ETER	
Size	7.95 x 2.36 x 1 in. (20 x 6 x 2.6 cm)
Frequency ranges: ISO Low speed ISO BDU	10 Hz - 1 kHz (600 - 60,000 CPM) 2 Hz - 1 kHz (120 - 60,000 CPM) 1 - 10 kHz (60,000 - 600,000 CPM)
Max frequency resolution	75 CPM at 800 lines FFT setting
Displayed amplitude units	Acceleration: g Bearing damage: BDU Velocity: in/sec and mm/sec Displacement: mils and mm
Displayed frequency units	CPM or RPM
Input range	±60 g
Dynamic range, 0.01 g resolution	96 dB
VA bands	Auto set-up
Display	OLED full color, high contrast, auto dimming (10 seconds default adjustable to 120 seconds)
Selectable languages	English (default), German, Italian, Portuguese, Spanish, Russian Czech, French, Dutch, Chinese, Korean, Japanese
Weight (excluding magnet)	9.8 oz (280 grams)
Environmental: Water Operating temperature Storage temperature	IP67 waterproof 0° to +50°C –20° to +70°C
Power supply	2x AA batteries
Battery life	20 hours normal use
NSOR	
Sensor	786B-10 general purpose accelerometer
Sensitivity	100 mV/g
Sensitivity tolerance	±10%
Acceleration range	80 g
Frequency range, ±3 dB	0.5 Hz to 14 kHz
Acceleration limit	500 g
Cable	R6WP-2-J88C-6 coiled cable, 6 ft.
Magnet	Two-pole 40 lbf, detachable

### Accessories supplied:

- 786B-10 accelerometer with magnet
- 6 ft. coiled cable assembly
- DataMate software
- MAC001 docking station with USB cable
- MAC002 protective boot with magnets
- MAC003 carrying case with insert

### Accessories available:

- MAC004 strobelight attachment
- MAC005 DataMate PRO software
- MAC006 Bluetooth headphones
- MAC007 headphones carrying case

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# Wilcoxon Sensing Technologies An Amphenol Company