

# MachineryMate™ vibration meter kits

## MAC800 series



Meggitt's handheld vibration meter helps find machine faults before they impact operation or cause catastrophic failures. The MAC800 kits increase productivity and lower maintenance costs by identifying vibration problems including bearing conditions in early and late stages of failure. This 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.

Combined with the included DataMate software, the MAC800 can become the foundation of a plantwide condition monitoring program, supporting up to ten machines. Upgrading to the DataMate Pro software allows monitoring of up to 1,000 machines. The MAC800 meter can be used in most industries including commercial and industrial HVAC, food processing, packing, petrochemical, pulp and paper, power plants and utilities. Options for extended capabilities include high-performance Bluetooth headphones for auditory monitoring, and a strobelight attachment for run speed analysis. MachineryMate™ kits are available with an assortment of accessories. Use the ordering guide below to find a basic to advanced solution for your monitoring needs.

MachineryMate kits			Accessories
MAC800	MAC810	MAC820	
X	X	X	MAC800 meter and DataMate software
X	X	X	USB docking cradle
X	X	X	Protective boot
X	X	X	Carrying case
	X	X	Strobelight attachment
	X	X	DataMate Pro software
		X	Bluetooth headphones
		X	Headphones case

### Key features

- Internal data storage
- Data trending software
- Standard cable mounted accelerometer with magnet
- Built-in Bluetooth communication capability
- USB docking station for PCs
- Built-in ISO alarms
- Easily identify bearing problems with BDU reading
- 800 line FFT spectrum
- Ruggedized IP67 case
- Listen to bearing noise with headphones (optional)
- View running speed with strobe light attachment (optional)

### Certifications



## Meggitt Sensing Systems

### Our energy product competencies and services

Machinery protection | Condition monitoring | Integrated performance monitoring | Partial discharge monitoring | Sensors for extreme environments  
Ignition systems | Flame detection and analysis | **Industrial monitoring solutions** | Nuclear products

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**MEGGITT**  
smart engineering for  
extreme environments

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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, not including magnet</b>	9.8 oz	280 g
<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>	20 hours normal use	20 hours normal use
<b>Frequency ranges</b>	<b>ISO</b>	120 - 60,000 CPM
	<b>BDU</b>	60 - 600,000 CPM
<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>	±60 g	588 m/sec <sup>2</sup>
<b>Dynamic range, 0.01 g resolution</b>	96 dB	96 dB
<b>VA bands</b>	Auto set-up	Auto set-up
<b>Accelerometer connection</b>	500 g peak	4,900 m/sec <sup>2</sup> peak
<b>Selectable languages</b>	English (default), Spanish, Portuguese, French, Italian, German	

Accessories supplied: 780FM-2-J88C accelerometer with integral cable, 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

Note: Due to continuous process improvement, specifications are subject to change without notice.

This document is cleared for public release.

### Contact

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