

MachineryMate™ vibration meter kits

MAC800 series



Wilcoxon’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 the right 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

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

Wilcoxon Sensing Technologies
 20511 Seneca Meadows Parkway
 Germantown, MD 20876
 info@wilcoxon.com

Tel: (301) 330 8811
 Fax: (301) 330 8873
 www.wilcoxon.com

Wilcoxon Sensing Technologies
 An Amphenol Company

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



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SPECIFICATIONS

	English	Metric
Size	7.95 x 2.36 x 1"	20 x 6 x 2.6 cm
Weight (excluding magnet)	9.8 oz	280 grams
Environmental		
Water	IP 67 waterproof	IP 67 waterproof
Operating temperature	+32 to +122° F	0 to +50° C
Storage temperature	-4 to +158° F	-20 to +70° C
Power supply	2x AA batteries	2x AA batteries
Battery life	20 hours normal use	20 hours normal use
Frequency ranges		
ISO	120 - 60,000 CPM	2 Hz - 1 kHz
BDU	60 - 600,000 CPM	1 - 10 kHz
Max frequency resolution	1.25 Hz at 800 lines FFT setting	1.25 Hz at 800 lines FFT setting
Displayed amplitude units		
Acceleration	g	g
Bearing damage	BDU	BDU
Velocity	in/sec	mm/sec
Displayed frequency units	Hz	CPM or RPM
Input range	±60 g	588 m/sec ²
Dynamic range, 0.01 g resolution	96 dB	96 dB
VA bands	Auto set-up	Auto set-up
Accelerometer connection	500 g peak	4,900 m/sec ² peak
Display	OLED full color, high contrast	OLED full color, high contrast
Selectable languages	English (default), Spanish, Portuguese, French, Italian, German	

Contact

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Germantown MD 20876, USA

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Fax: +1 301 330 8873

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Accessories supplied:

- 780FM-2-J88C accelerom-eter 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 head-phones
- MAC007 headphones carrying case

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