MachineryMate™ handheld vibration meter
MAC200

Key features

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

Meggitt's smart vibration meter helps find machine faults before they stop machinery. 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 a industries including commercial and industrial HVAC, food processing, mining, packing, petrochemical, pulp and paper, power plants and utilities. The MAC200 is a cost effective, high-specification tool with high level functionality and capability for a comprehensive picture of machinery health.

Certifications

CE

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
99193 Rev A 10/13

MEGGiTT
smart engineering for
extreme environments

MachineryMate™ handheld vibration meter
MAC200

Specifications

	English	Metric
Size	7.95″ x 2.36″	20 x 6 cm
Weight	9.8 oz	280 g
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	2 years standby	2 years standby
	1,500 measurements	1,500 measurements
	50 hours normal use	50 hours normal use
Frequency ranges	2 Hz - 3 kHz	2/10 Hz - 1 kHz
Frequency resolution	100 - 200 - 400 - 800 lines	100 - 200 - 400 - 800 lines
Displayed amplitude units		
Acceleration	g/velocity in inches per second	g/velocity in mm per second
Bearing damage	BDU	BDU
Displayed frequency units	Hz	CPM or RPM
Input range	±50 g	±50 g
Dynamic range	72 dB	72 dB
VA bands	Auto set-up	Auto set-up
Accelerometer connection	internal sensor	internal sensor
Display	OLED full color, high contrast	OLED full color, high contrast
Reading storage	250 µg/gauss	245.2 m/sec^2/gauss
Selectable languages	English (default), Spanish, Portuguese, French, Italian, Turkish, Chinese, Japanese and Korean	

Accessories supplied: carrying case with inserts
Accessories available: MAC002 magnet

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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MachineryMate™ handheld vibration meter
MAC800

Meggitt's handheld vibration meter helps find machine faults before they impact operation or cause catastrophic failures. The MAC800 can 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 unlimited 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.

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

CE

MachineryMate™ system			Accessories	Part number
MAC800	MAC810	MAC820		
X	X	X	MAC800 meter and DataMate software	M800
X	X	X	USB docking cradle	MAC001
X	X	X	Protective boot	MAC002
X	X	X	Carrying case	MAC003
	X	X	Strobelight attachment	MAC004
	X	X	DataMate Pro software	MAC005
		X	Bluetooth headphones	MAC006
		X	Headphones case	MAC007

Meggitt Sensing Systems

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MachineryMate™ handheld vibration meter
MAC800

Specifications

		English	Metric
Size		7.95″ x 2.36 x 1″	20 x 6 x 2.6 cm
Weight, not including magnet		9.8 oz	280 g
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
Selectable languages		English (default), Spanish, Portuguese, French, Italian, Turkish, Chinese, Japanese and Korean	

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

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Instrumentation

MachineryMate® handheld vibration meters

Wilcoxon's easy-to-use meters record, analyze and display bearing conditions and vibration values color-coded to ISO 10816-3 alarm levels, enabling quick and reliable machinery health monitoring. Built-in filter bands provide a clear picture of machine problems, including unbalance, misalignment and looseness.

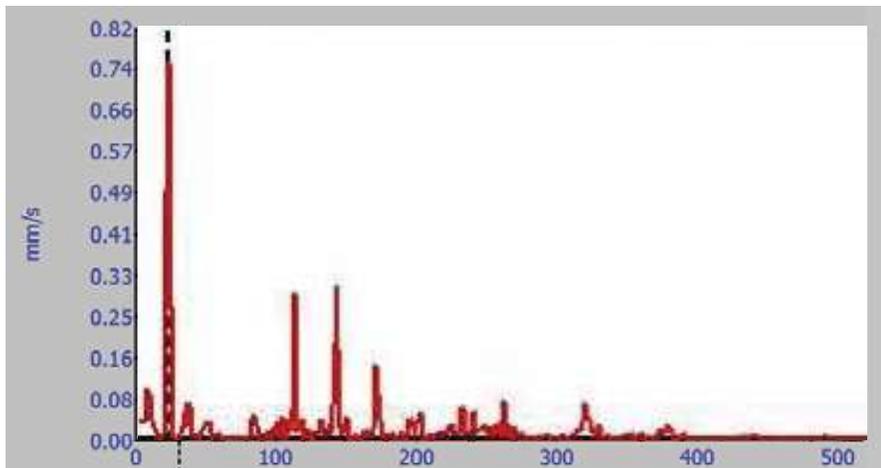| MachineryMate kits			Accessories
MAC800	MAC810	MAC820	
X	X	X	MAC800 meter and DataMate software
X	X	X	USB docking cradle
X	X	X	Protective boot
X	X	X	Carrying case
	X	X	Strobelight attachment
	X	X	DataMate PRO software
		X	Bluetooth headphones
		X	Headphones case

MachineryMate
MAC800

NEW TO VIBRATION?

Economical entry into vibration data collection. View more at buy.wilcoxon.com.

DataMate® software

DataMate is the powerful vibration and analysis software tool designed for use with the MAC800 handheld vibration meter.

DataMate PRO works across computer networks to allow access to remote databases and readings that are stored on other computers. This advanced feature enables users to monitor machinery at more than one site.