



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.

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

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 99194 Rev A.1 12/13

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







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 r	magnet	9.8 oz	280 g
Environmental			
	Water	IP 67 waterproof	IP 67 waterproof
Operat	ting temperature	+32 to +122° F	0 to +50° C
Stor	age 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 resolut	tion	1.25 Hz at 800 lines FFT setting	1.25 Hz at 800 lines FFT setting
Displayed amplitude u	nits		
	Acceleration	g	g
	Bearing damage	BDU	BDU
	Velocity	in/sec	mm/sec
Displayed frequency u	nits	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 connec	tion	500 g peak	4,900 m/sec² 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

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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