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.

MachineryMate kits			Accessories included
MAC800	**MAC810**	**MAC820**	
✔	✔	✔	MAC800 meter and Datamate software
✔	✔	✔	USB docking cradle
✔	✔	✔	Protective boot
✔	✔	✔	100 mV/g sensor with magnet
✔	✔	✔	Carrying case
	✔	✔	Strobelight attachment (MAC004)
	✔	✔	DataMate PRO software (MAC005)
		✔	Bluetooth headphones (MAC006)
		✔	Headphones case (MAC007)

Key features

- Data trending software
- Internal data storage
- Built-in ISO alarms and Bluetooth capability
- Standard cable mounted accelerometer with magnet
- BDU reading to easily identify bearing problems
- 800 line FFT spectrum
- Manufactured in an approved ISO 9001 facility

Certifications

CE

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

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Wilcoxon
SENSING TECHNOLOGIES

SPECIFICATIONS

METER

Size		7.95 x 2.36 x 1 in. (20 x 6 x 2.6 cm)
Frequency ranges:	**ISO**	10 Hz - 1 kHz (600 - 60,000 CPM)
	Low speed ISO	2 Hz - 1 kHz (120 - 60,000 CPM)
	BDU	1 Hz - 10 kHz (60 - 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
Selectable languages		English (default), Spanish, Portuguese, French, Italian, German
Weight (excluding magnet)		9.8 oz (280 grams)
Environmental:	**Water**	IP67 waterproof
	Operating temperature	0° to +50°C
	Storage temperature	–20° to +70°C
Power supply		2x AA batteries
Battery life		20 hours normal use

SENSOR

Sensor	780FM-2-J88C integral cable accelerometer
Sensitivity	100 mV/g
Sensitivity tolerance	±15%
Acceleration range	80 g
Frequency range, ±3 dB	0.4 Hz to 12 kHz
Acceleration limit	500 g
Cable	6 ft. coiled cable
Magnet	Two-pole 40 lbf, detachable

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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