MachineryMate™ intrinsically safe vibration meter kit

MAC800-IS

Wilcoxon's handheld MAC800-IS vibration meter analyzes and displays vibration signals, helping users identify machine faults before they impact operations or lead to failure. The meter comes with built-in band filters for unbalance, misalignment and looseness, and its low frequency range allows readings on machinery running at speeds as slow as 120 RPM. The meter is IECEx/ATEX and SGS certified intrinsically safe for use in Class 1, Div 1/Zone 1 hazardous locations.

When used with the included DataMate software, the MAC800-IS 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.
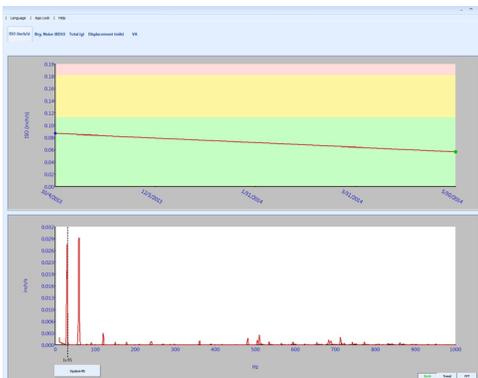
Certifications

Ex ib IIC T4 Gb
-20°C ≤ Ta ≤ +40°C

Class I, Div 2

CE

IEC IECEx

UL LISTED

DataMate software

DataMate is the easy to use vibration analysis software tool designed for the MAC800 series. It supports up to 10 machines (standard) or up to 1,000 (PRO version), with 10 individual points per machine. By enabling remote access to databases and readings, the software makes it simple to monitor machinery at more than one site.

Key features

- Intrinsically safe, certified for Class I, Div 1/Zone 1 hazardous areas
- Data trending software
- Internal data storage
- Built-in ISO alarms and Bluetooth capability
- Includes intrinsically safe accelerometer with magnet
- BDU reading to easily identify bearing problems
- 800 line FFT spectrum
- Manufactured in an approved ISO 9001 facility

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

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MAC800-IS

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)
	Acceleration	2 Hz - 10 kHz (120 - 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		Hz 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	–20° to +40°C
	Storage temperature	–20° to +70°C
Power supply		2x AA batteries
Battery life		50 hours normal use

SENSOR

Sensor	786A-IS intrinsically safe accelerometer
Sensitivity	100 mV/g
Sensitivity tolerance	±5%
Acceleration range	80 g
Frequency range, ±3 dB	0.5 Hz to 14 kHz
Acceleration limit	500 g
Cable	6 ft. coiled cable
Magnet	Two-pole 55 lbf, detachable

Accessories supplied:
• 786A-IS intrinsically safe accelerometer
• R6WP-2-J88C-06 cable assembly
• MD055 two-pole magnet
• 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: Models MAC004 and MAC006 can only be used with the MAC800-IS meter in a safe area outside of the hazardous location.

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