

# 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 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



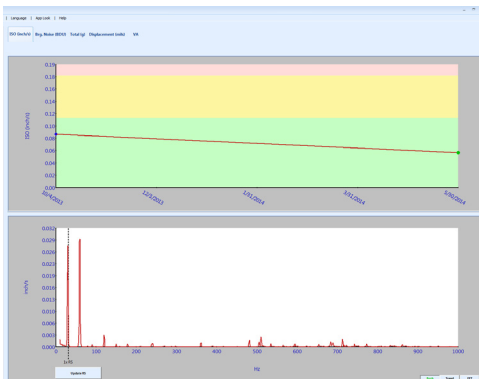
Ex ib IIC T4 Gb  
-20°C ≤ Ta ≤ +40°C



Class I, Div 2



### 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, 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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### SPECIFICATIONS

METER		
<b>Size</b>		7.95 x 2.36 x 1 in. (20 x 6 x 2.6 cm)
<b>Frequency ranges:</b>	<b>ISO Low speed ISO Acceleration</b>	10 Hz - 1 kHz (600 - 60,000 CPM) 2 Hz - 1 kHz (120 - 60,000 CPM) 2 Hz - 10 kHz (120 - 600,000 CPM)
<b>Max frequency resolution</b>		75 CPM at 800 lines FFT setting
<b>Displayed amplitude units</b>		Acceleration: g Bearing damage: BDU Velocity: in/sec and mm/sec Displacement: mils and mm
<b>Displayed frequency units</b>		Hz or RPM
<b>Input range</b>		± 60 g
<b>Dynamic range, 0.01 g resolution</b>		96 dB
<b>VA bands</b>		Auto set-up
<b>Display</b>		OLED full color, high contrast
<b>Selectable languages</b>		English (default), Spanish, Portuguese, French, Italian, German, Russian, Czech, Dutch, Chinese, Korean, Japanese
<b>Weight (excluding magnet)</b>		9.8 oz (280 grams)
<b>Environmental:</b>	<b>Water Operating temperature Storage temperature</b>	IP67 waterproof -20° to +40°C -20° to +70°C
<b>Power supply</b>		2x AA batteries, Energizer® L91 Ultimate Lithium
<b>Battery life</b>		Typically 20 hours continuous operating time, dependent upon Brightness setting
SENSOR		
<b>Sensor</b>		786A-IS intrinsically safe accelerometer
<b>Sensitivity</b>		100 mV/g
<b>Sensitivity tolerance</b>		± 5%
<b>Acceleration range</b>		80 g
<b>Frequency range, ±3 dB</b>		0.5 Hz to 14 kHz
<b>Acceleration limit</b>		500 g
<b>Cable</b>		6 ft. coiled cable
<b>Magnet</b>		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:

- MAC005 DataMate PRO software

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