

Sentinel® VM – 12 Channel Vibration Monitor



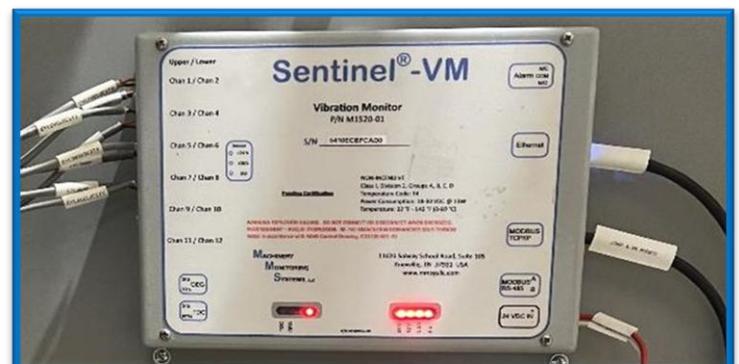
The MMS Sentinel-VM is a complete, stand-alone 12 channel machinery monitoring system. The VM monitors up to 8 accelerometer or velocity sensors and 4 analog sensors (4-20 mA or 0-5 volt) for inputs like temperature, pressure, flow, or rod drop/runout. It includes an embedded web software interface that displays the overall values for each channel, 2 alarm levels, sensor OK as well as short and long-term trends graphs. Alarm levels can be set for each channel individually.

VM-II - Key Features

- 8 accelerometer or velocity input channels (ICP)
- 4 configurable 4-20 mA or 0-5 volt input channels
- Supports both rotating (time-based) and reciprocating (crank-angle based) machinery
- Changeable Usernames, Encrypted Passwords & Multi-Factor Authentication per TSA mandates
- No special software required, only Web Browser & connection to the module. No monthly or annual subscription fees.
- MODBUS (RS-485 & Ethernet) communication
- Optional Alarm Relay (Dry contacts)
- Class 1, Division 2, Groups A,B,C,D

The embedded software also displays dynamic waveforms and up to a 6400 line FFT without any additional software needed. No monthly or annual subscription fees.

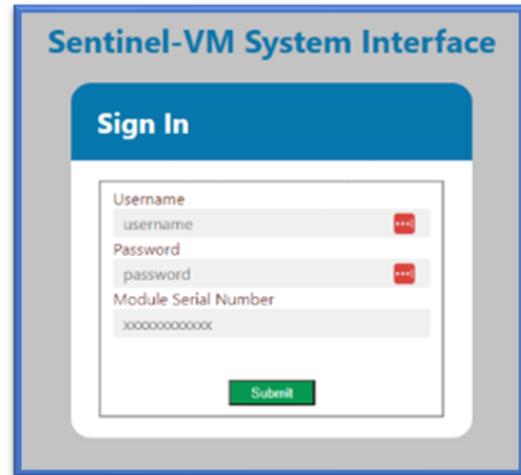
MODBUS communications provide the data to the Unit PLC or DCS. Optional alarm relay also available.



Sentinel-VM User Interface

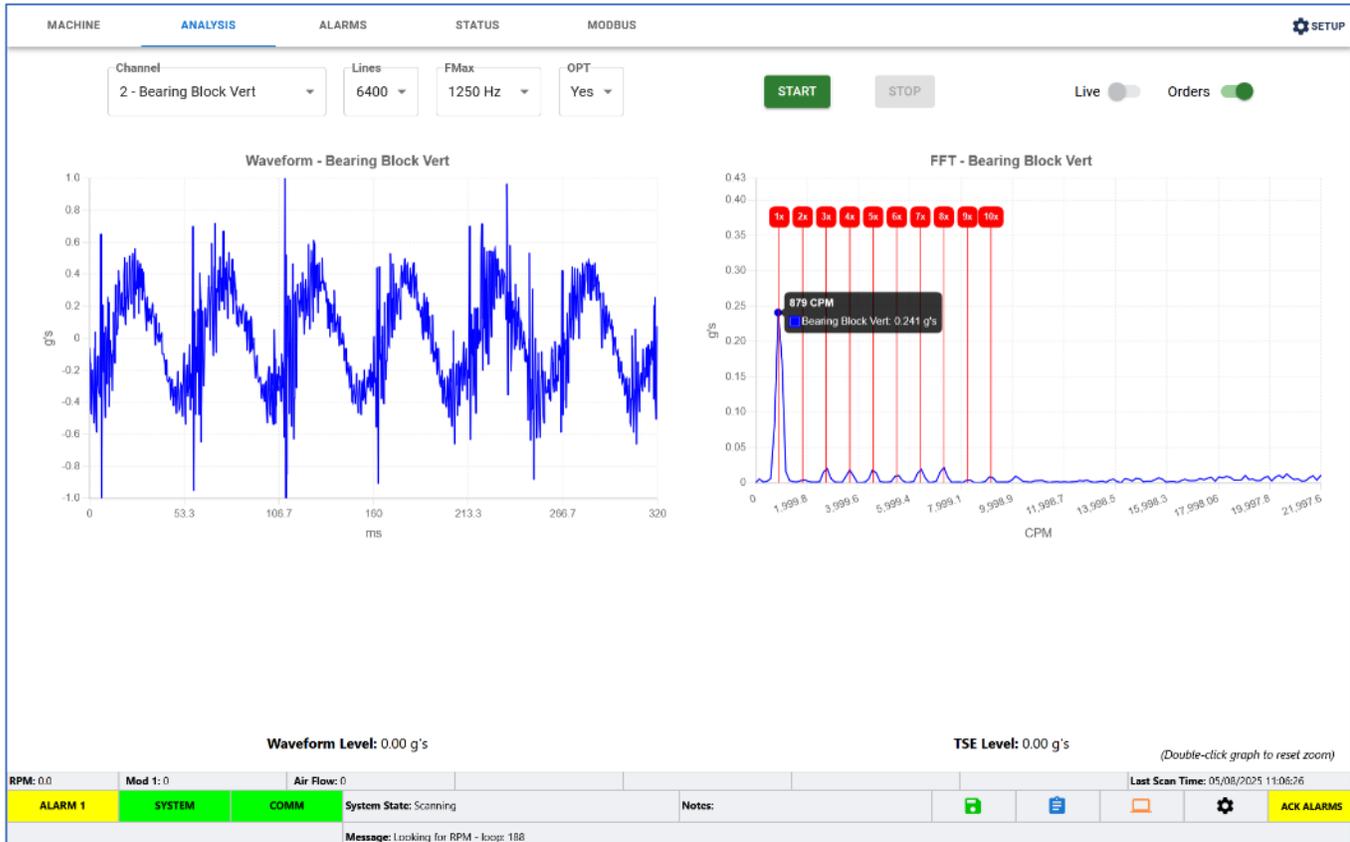
- Embedded Web browser-based software app accessible via ethernet/network output
- Time based and/or Crankangle based vibration waveforms
- Overall vibration levels
- Configurable alarm levels
- Sensor OK\Not-Ok indication
- Modbus serial or TCP/IP output
- Short term trend (15 minute)
- Long term trend 7 day (Average, Minimum & Maximum)
- Dynamic Waveforms
- FFT plots
- Active cursor with vibration levels and date\time stamp
- Zoom\Un-zoom
- FFT graph includes multiples of run speed marker (10X) and multiple of cursor position

Authentication Screen TSA Compliant Login



Short term & Long term trends





Sentinel-VM Specifications

Power Requirements	13 W@24 VDC (18-30 VDC) Customer-provided power must be sourced from SELV/LPS power source
Sensor Inputs	8 accelerometer or velocity input channels (ICP) and 4 analog input channels (4-20 mA or 0-5 v)
Relay Output	Dry Contacts, Normally Energized NO & NC Contacts Resistive Load: 2 A, 30 VDC max
Size	12" x 8" x 2"
Weight	3 lbs. (w/ Cover & Mounting Plate)
Environment	Indoor use, non-wet location
Operating Temp.	0 - 60 °C (32 – 140 °F)
Operating Humidity	5 – 95% (Non-condensing)
Hazardous Area Rating	Class I, Division 2, Group A, B, C, D Temperature Code: T4 Ambient Temperature: 0 °C < Tamb < 60 °C Certificate #: SGSNA/22/SUW/00029X