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Описание на комплексы для мониторинга работающих механизмов. Серия vbOnline Pro





vbOnline Pro Fact Sheet

The vbOnline Pro provides automated, user-scheduled monitoring of an asset's health. It is a flexible and scalable system fully supported by the next evolution of GE's System 1* condition monitoring and diagnostics software. The system assists in the early detection of machinery and process problems. The vbOnline Pro provides economic vibration monitoring for mid- and low-level criticality assets. The device is easy to install and configure.

Machinery Applications

vbOnline Pro is an ideal solution for REB (roller element bearing) machines with case mounted seismic sensors, including:

- Agitators
- Air Compressors
- Ball mills
- Blowers
- Centrifuges
- Cooling tower fans and pumps
- Motors
- Small Reciprocating Compressors
- Small hydro & steam turbines

Hardware Key Features

The vbOnline Pro enables strategic, data-driven maintenance planning and decision making to optimize asset reliability. The key features and benefits include:

- Compact and easy to install
- Simultaneous 12-channel data sampling
- Support for use with single PC or network



- Wired Ethernet connection
- 24-bit A/D conversion
- Supports 2 wire IPE/E/ICP accelerometers
- Multiple user configurable waveforms and types per channel
- Configurable set points with alarming and events

Software Key Features

The vbOnline Pro and System 1 software complement your predictive maintenance program by performing cost effective data collection and condition monitoring analysis.

System 1 software is the core of GE's Bently Nevada* condition monitoring solution. It is an innovative approach to provide users with a single ecosystem for plant-wide machinery management.

User Experience

Modern consumer software applications have pushed the envelope when it comes to user experience; we believe the same expectations apply for industrial CM applications.

- Modern and intuitive interface
- Continuous user involvement
- User-driven CM and diagnostic workflows

Capability

System 1 provides scale when it comes to database management, diagnostics, and work prioritization.

- High resolution trends and alarming
- Short-term "black box" flight recorder for trend data
- Anti-friction rolling element bearings
- Diagnostic reporting

Accessibility

Successful condition monitoring programs require collaboration between departments and controlled access to the tools.

- Distributed client/server deployment model
- Shared software platform with SCOUT data collector
- User security profiles

vbOnline Specifications

Analog Inputs		Memory	
Channels 1 to 12	Compatible with IEPE 2 wire sensors	Offline storage duration	8 hours typical 3,000 waveforms with 6,400 lines
Sampling method	All channels sampled simultaneously	Recording retrieval to database	Automatic synchronization after a loss of communication
DC-coupled ranges	-20 V to 0 V	Enterprise capacity	50 monitors (600 channels) maximum
AC-coupled ranges	24 V peak-peak	Hardware Configuration	
Sensor drive current (2 wire mode)	3.3 mA @ -24 V	Security	Configurable user name and password
A to D conversion	24-bit	Firmware Updates	Field upgrades available from BNMC
Input impedance	>100 kΩ for 2-wire applications 10 kΩ for 3-wire sensor applications (Ch. 11 and 12 only)	Network IP address configuration	Configured from BNMC
Dynamic range	≥ 110 dB	Tachometer Inputs	
Amplitude accuracy	± 1% (0.1 dB)	Channels	2
Advanced Features		Input types	Proximity
Data Storage Intervals	Data collection rate is configurable in increments of 10 minutes (default of 4 hours). All channels are sampled in parallel.	Power supply to sensor	-24 V
Current Values	Direct and Bias 1 second updates Waveforms 30 second updates SW trended data available at 10 minutes Not historized	Keyphasor* threshold	Auto threshold
Waveform Support	Multiple-user configurable waveforms and types per channel	Events per revolution	Software configurable
Configuration Assistance	Calculation and display of available vbOnline Pro resources based on monitor configuration	Recommended sensor	Bently Nevada Proxititors/Keyphasors Proximity switch Turck Ni8-M18T-AP6X7M
Alarming and Events	Configurable set points for all trended variables	Outputs	
Machine state/Mode based data collection	Post Alarm/Event Capture up to 15 (30 second granularity)	Input type and connector	Dual RJ45
Asynchronous Measurements		Buffered outputs	All channels
Quantities	Acceleration Velocity Demodulation	Status Indicators	
Frequency range	0.2 Hz to 40 kHz (12 CPM to 480,000 CPM)	LEDs	Power, OK, Danger, Alert, Kph 1 OK, Kph 2 OK, Net A TX/RX A, Net B TX/RX B
Sampling rates	102.4 kspS max	Communications and Power	
Measurement Types		Network communications	Ethernet v2.0, TCP/IP, 10/100 baseT
Trended Variables	Direct Bias Spectral Bands	Power supply	1.7 A @ 18 V to 36 V
Speed Accuracy	± 0.1 RPM from 1 to 100 RPM ± 1.0 RPM from 100 to 120,000 RPM	Monitor boot-up time	<5 minutes
Signal Processing (Asynchronous Waveforms)		Mechanical	
Waveform samples	Up to 32768	Mounting	Standard 35 mm DIN rail
Spectral lines	100 to 12,800 in increments of 2X	Size	199 mm x 130 mm x 45 mm
Fmax	User configurable up to 40 kHz	Optional sealed housing	When installed in a weather-proof enclosure
Spectral resolution	Down to 0.78 mHz/line	Environmental	
Window types	Hanning	Temperature range	-40°C to +70°C (-40°F to +158°F)
Demodulation bandwidth	125 Hz-10 kHz (18 preset options)	Humidity	95% RH non-condensing
		EMC	EN 61000-6-2, EN 55011/CISPR 11 EN 61000-6-4, EMC Directive 2004/108/EC

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