

Asset Condition Monitoring Solutions

METRIX
Experience Value

Our Company

Metrix is the preferred supplier of industrial vibration monitoring systems and services to many of the world's leading manufacturers and users of cooling towers, gas turbines, reciprocating compressors, and other rotating and reciprocating machinery. With headquarters in Houston, Texas, we operate in more than 40 countries via factory-direct sales and service professionals, along with a strategic network of instrumentation partners.

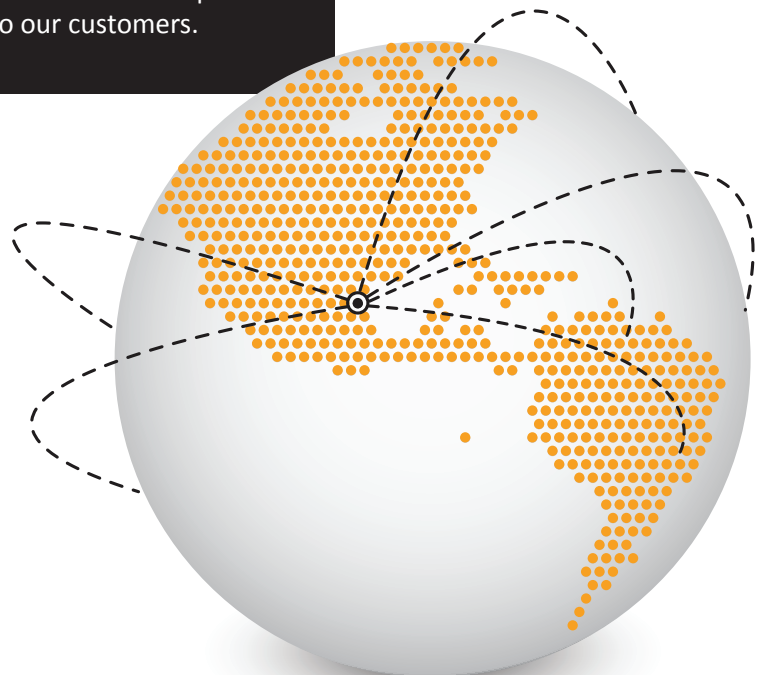
Founded in 1965 by Peter J. Sundt, an electrical engineer and entrepreneur, Metrix traces its roots to seismic measurement technology. Initially focused on geophysical exploration, this technology also found abundant applications for vibration measurements on industrial machines. As a result, machinery condition monitoring emerged as our sole focus and has remained so for more than 45 years.

Metrix pioneered the concept of simple, affordable machinery protection with our mechanical vibration switch offerings, revolutionary 4-20mA vibration transmitters, robust high-temperature velocity sensors, and innovative impact transmitter technology for reciprocating

machinery. In 1998 we acquired PMC/BETA, the world's leading provider of electronic vibration switches; in 2007 we acquired the vibration monitoring division of Hardy Instruments and their industry-leading portable vibration calibrators. Today, Metrix enjoys a global leadership position in all of these technologies while growing to expand our capabilities and better serve our customers.

With the launch of our SETPOINT™ family of products in 2010, Metrix is emerging as a leading provider of complete machinery protection solutions that comply with API 670, the world's most widely used specification for vibration monitoring systems.

Metrix is owned by Roper Industries, a diversified growth company with annual revenues approaching \$3 billion. Roper provides a robust set of operating disciplines while allowing its businesses considerable autonomy to pursue profitable growth. The result is the best of both worlds: Metrix blends Roper's multi-billion dollar S&P 500 stability with the agility of a smaller company, able to focus every day on delivering solutions that provide better value to our customers.





Why Metrix?

- **Deep Experience**

Metrix has been in business for more than 45 years. The average experience of our factory-direct sales and service professionals exceeds 20 years. That's more than two decades of hands-on expertise helping customers find and apply the right condition monitoring solutions for their needs.

- **Quality**

For more than 20 years, Metrix has been ISO-9001 certified. We place very strong emphasis on continuous improvement of our products, manufacturing processes, and all customer-touching activities to ensure that we never lose sight of quality. We stand behind our product quality with a full 36-month warranty.

- **Easier Transactions**

Metrix works hard to ensure that we are easy to do business with by insist-

ing on customer-centric commercial practices. We constantly invest in our business to ensure that the technical support you receive before, during, and after the sale is always competent, timely, and professional.

- **Simplicity**

Ease-of-use permeates our design philosophy. Our customers experience this through configuration software that is intuitive and friendly, wiring terminals on many products that are polarity independent, product designs that minimize installation costs and complexity, and feature sets that find the right balance between usability and complexity.

- **Innovative Technology**

We pioneered technologies such as 4-20mA vibration transmitters, mechanical (inertial) vibration switches,

and high-temperature velocity sensors that require no external power. Through ongoing R&D, we continue this heritage of innovation with digital proximity probe technology, use of the OSisoft® PI® System to acquire and store vibration waveform data, 2-wire proximity probe technology, fully programmable electronic vibration switches, and the world's first API 670 compliant machinery protection system using just two basic monitoring module types.








- **Online Convenience**

We are making significant investments in our web presence to ensure that self-help product technical information is more accessible and that eCommerce capabilities for purchasing our most popular products are readily available. We were the first in our industry to offer instant, on-line budgetary proposal tools for API 670 systems.

products




















PROXIMITY TRANSDUCER SYSTEMS

For convenience, our proximity probe families are interchangeable with Bently Nevada* proximity probe families including 3000 series, 7200 series, RAM* / NSv*, and 3300 XL. In addition to systems providing a mV/mil output, Metrix offers industry-leading 4-20mA transmitter versions for increased flexibility in choice of monitoring strategies.

										
	Probes	Extension Cables	Analog Proximity Drivers	Digital Proximity Drivers	Digital Proximity Transmitters			Proximity Signal Conditioner		Accessories
					Vibration	Position	Speed	Vibration	Position	
3000 Series .190" & .300"	100XX	7386	5533	MX2033	MX2034	MX2034	TXR5521-30	5510C	5516C	<ul style="list-style-type: none"> • Probe Brackets • Probe Bushings • Single and Dual Cable Feedthroughs • Driver and Transmitter Housing • Probe Housing • Micrometers • Conduit Fittings
7200 Series 5mm & 8mm	100XX	7402	5533	MX2033	MX2034	MX2034	TXR5521-72	5510C	5516C	
7200 Series 11mm	100XX	9282	5533			TXA-72		5510C	5516C	
RAM & NSv 5mm			5533	MX2033	MX2034	MX2034	TXR5521-39	5510C	5516C	
MX2030/3300XL 5mm & 8mm	MX2030	MX2031	5533	MX2033	MX2034	MX2034	TXR5521-33	5510C	5516C	












SEISMIC VIBRATION SENSORS AND TRANSMITTERS

We offer an extremely wide selection of seismic vibration sensing solutions – most with hazardous area approvals. A broad selection of accessories is also available to ensure maximum flexibility and ease of installation.

	Transmitters			Sensors				Signal Conditioners		Accessories	
	Non Indicating			Indicating	Standard Temp.		High Temp.	Underwater	Non Indicating		Indicating
	Standard	Slim	Compact	Standard	Std. Freq.	Hi Freq.					
Velocity											 <ul style="list-style-type: none"> • Cable Assemblies • Mounting Adapters • Conduit Elbows • Sensor Housings • Fittings • Junction Boxes
Acceleration											
Impact											

SINGLE-CHANNEL VIBRATION SWITCHES AND MONITORS

Metrix provides reliable vibration switches that are regarded as the industry standard. These devices offer basic vibration protection in a stand-alone package. Various hazardous area approvals and enclosure styles are available to ensure that most applications can be addressed with standard product offerings.

		Mechanical		Electronic				
		Non Indicating		Multi-wire			2-wire	
				Indicating		Non Indicating		
		Standard	XP	Standard	XP	Standard	XP	
Acceleration	Single Setpoint	 5550	 5550 or 5550G		 PRO6000 ^{1,2}	 PRO440 ^{1,2}	 PRO6000 ^{1,2}	
	Dual Setpoint			 PRO440 ^{1,2}				
Velocity	Single Setpoint				 SW6000 ^{1,2}	 440 ¹	 450	 5477B ²
	Dual Setpoint							
Displacement	Single Setpoint							
	Dual Setpoint							

1. Can be optioned to use integral internal accelerometer or optional external vibration sensor.

2. Available with or without optional integral display.

3. Displacement measurements available with external velocity sensor only.

PORTABLE INSTRUMENTS

Our portable offerings are designed to augment our monitoring solutions by providing hand-held meters, calibration instruments, and multi-channel data acquisition solutions. All are ruggedized to withstand the rigors of daily, industrial use.

Vibration Meters			Shaker Tables		Multi-Channel Data Acquisition Instruments	
Standard Features	Deluxe Features	Intrinsically Safe	Standard Features	Deluxe Features	2-4 Channels	4-1024 Channels
 VM2800	 VM3800	 5500	 HI803	 HI813	 <i>SignalCalc* Turbo with Quattro*</i> by DataPhysics	 <i>SignalCalc* Turbo with Abacus*</i> by DataPhysics

SETPOINT

SETPOINT MPS is our rack-based machinery protection system, designed to continuously monitor up to 56 vibration channels or 84 temperature channels in a single rack.

- Intuitive touchscreen display
- Fully API 670 compliant
- Completely independent and redundant power
- Industry-first open protocol for both static (overall) and dynamic (waveform) data
- Engineered out-of-the-box connectivity to OSIsoft* PI System*
- Simplified spare parts with just 4 basic module types
- Accepts standard 24Vdc instrument power
- Simple, spreadsheet-like configuration software
- 4-slot, 8-slot, and 16-slot rack sizes available



SETPOINT DPS is our revolutionary new Digital Proximity System, designed to eliminate the need for dozens of different drivers and transmitters by a single, field-programmable package that can be configured to work with probes and cables from a variety of manufacturers.

- Compatible with most probes and cables from major manufacturers, and all monitoring systems
- Fully API 670 compliant
- Field programmable
- Available as 3-wire voltage mode probe driver or as 4-20mA transmitter
- Many special material calibrations available as standard options
- ETLc, ATEX, and IECEx, compatible with intrinsic safety barriers



SETPOINT CMS is our condition monitoring software, powered by the OSIsoft* PI System*. It connects directly to the SETPOINT MPS without need of any additional data acquisition hardware, historizing all rack data (including waveforms) and providing powerful visualization tools for machinery analysis.

- Simple, intuitive operation and configuration
- Tightly integrated with OSIsoft* PI System* for data storage, navigation, and visualization
- Powerful plot types including orbit, timebase, spectrum, shaft centerline, Bode, trend, and others
- Flexible data collection under steady-state and transient conditions
- Secure infrastructure designed to work within your IT guidelines
- Innovative data compression algorithms minimize storage space and bandwidth by keeping only what changes



Learn more at www.metrixsetpoint.com

SERVICES

We provide comprehensive service and support for all of our products:

- Applications Engineering
- Technical Support
- Product Installation
- Product Repair and Calibration
- Machinery Diagnostic Services
- Project Design and Management
- System Integration
- System Upgrades and Retrofits
- Engineered Enclosures/Cabinets

Metrix maintains a global network of both Factory-Direct and Factory Authorized Service Providers. Our personnel have extensive experience specific to the condition monitoring industry – many in excess of 20 years.

We are a 24/7 provider, available whenever and wherever you need us. Flexible service plans include call-out (time and materials) or contractual options. Contact us for more information at **713.702.8805**



safety

HAZARDOUS AREA APPROVALS

Metrix serves customers in the oil & gas, chemical processing, and other industries where hazardous area approvals are increasingly common. Most of our products are available with North American, ATEX, and IECEx approvals, along with CE mark compliance for Europe and country-specific approvals where appropriate.



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Doc 1141463 rev. G (May 2013)