



SETPOINT™ SYSTEM EXPANDS TO FULL TSI, RECIPROCATING COMPRESSOR, AND AERODERIVATIVE MONITORING

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HOUSTON, TX – Metrix Instrument Company today announced support for additional machinery types in its SETPOINT Machinery Protection System. SETPOINT was launched in 2011 with functionality to support basic turbo machinery measurements. Supported machine types were expanded in April 2012 to include hydro-turbines, and are now being further expanded to include large steam turbine-generator sets, reciprocating compressors, and aeroderivative gas turbines. Support for these machine types has been timed to coincide with customers' machinery maintenance outages planned for the latter half of this year.

Large steam turbine-generator sets are widely used in fossil fuel and nuclear power plants and require a suite of measurements beyond standard bearing vibration, shaft axial position, and bearing temperature. To address these needs, the following measurements are now available to order in the SETPOINT System's Universal Monitoring Module (UMM):

- Standard Differential Expansion
- Ramp Differential Expansion
- Complementary Input Differential Expansion
- 1X/2X Vectors
- NOT 1X
- Shaft Eccentricity
- Single- and Dual-Input Case Expansion
- Shaft Absolute (Dual Probe)
- Zero Speed
- Valve Position

Aeroderivative gas turbines are widely used in both power generation service and mechanical drive service. These machine types are built by GE, Rolls-Royce, Pratt & Whitney, and others. They utilize highly OEM-specific monitoring schemes relying on high-temperature seismic sensors and special filtering requirements. To address these needs, the following measurements are now available to order in the SETPOINT System's UMM:

- Configurable tracking bandpass filters
- Configurable non-tracking bandpass filters
- Support for external interface modules used with high-temperature accelerometers typically used on GE and Rolls-Royce engine types
- Support for direct input of high-temperature accelerometers and velocity transducers, eliminating the need for separate interface modules
- Multiple-event-per-turn speed signals (integer and non-integer)

Reciprocating compressors are widely used in oil & gas applications and have special monitoring requirements to detect problems in frame and cylinder components including valves, pistons, packing, rods, and distance pieces. To address these needs, the following measurements are now available to order in the SETPOINT System's UMM and TMM (Temperature Monitoring Module):

- Rod Drop and Rod Position (UMM)
- Frame Vibration (UMM)
- Impulse/Velocity (UMM)
- Impacts per unit time (UMM)
- Average Temperature for user-defined groups (TMM)
- Differential Temperature (TMM)

All of these new measurement capabilities can be enabled in existing hardware in the field by downloading the appropriate firmware and reconfiguring the new channel types as desired.

About SETPOINT™...

The SETPOINT system was first announced in October 2010 at the A&M turbomachinery show in Houston. It began shipping to customers in July 2011 and to date has been sold to customers in more than 40 countries. The SETPOINT system features an industry-first integral touchscreen display with intuitive graphics inspired by Apple® iTouch®, iPod®, and iPad® portable devices. The system also eliminates the need for special power supplies by using the 24 Vdc instrument power readily available in most plants, thereby reducing heat in the rack and improving reliability. It introduces innovative front-access wiring connections that make it considerably easier to install and service than rear-access systems. For retrofit applications, its footprint is sized to exactly fit the industry's most commonly installed systems, ensuring existing cutouts and panels can be reused along with existing wiring.

About Metrix...

Metrix Instrument Company (www.metrixvibration.com) is a leading supplier of machinery protection and condition monitoring products and services to industrial customers worldwide. Founded in 1965, Metrix was the first company to offer vibration transmitters, allowing vibration to be more easily integrated with existing plant control and monitoring systems accepting process measurement inputs via industry-standard 4-20mA signals. Today, Metrix does business in more than 50 countries worldwide and, in addition to vibration transmitters, offers a comprehensive portfolio of vibration sensors, electronic and mechanical vibration switches, permanent monitoring systems, and associated field services for machinery diagnostics, system installation and maintenance, and training. Metrix is headquartered in Houston, Texas, with sales and service offices globally.

For More Information...

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