New Product

Introducing three new products to help

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The Velomitor® XA (Extended Application), combined with its special interconnect cable, is an easy-to-install, weatherproof piezo-velocity transducer system that doesn’t require a housing to meet IP65 requirements. The Velomitor® XA’s body consists of an integral 1/4 inch NPT mounting thread and a mil type (military-specification) bayonet connector. Its compact, one-piece design makes it a very strong, easy-to-mount transducer.

The Velomitor XA’s built-in 1/4 inch NPT mounting thread simplifies installation. There is no need to spot face the machine surface before mounting the Velomitor XA, because the base of the Velomitor XA doesn’t mount flush to the machine. The Velomitor® XA can mount on rough or uneven surfaces.

The Velomitor XA cable assembly is a necessary component of the Velomitor XA transducer system. The cable assembly consists of a mil-type connector, armored cable and a splash-resistant boot. The mil-type bayonet connector provides a stable connection when the Velomitor XA is mated to the cable connector. The splash-resistant boot covers and protects the connector and is secured by two quick-connect/disconnect clamps. It is designed to meet the requirements for Type 4 and IP 65 enclosures.

Gathering vibration data from machines in the field typically requires a wide variety of transducers and diagnostic equipment. The Velomitor Power Module (VPM) is useful for providing a constant current dc power source for Velomitors that aren’t powered from some other source, such as a 3300 Series Monitoring System.

The VPM is a hand-held, 9-volt battery-powered device that provides 24 Vdc constant current power to up to four Velomitors. The VPM is designed to interface stand-alone Velomitors with a variety of test and diagnostic equipment including:

- Digital Vector Filters (DVF 3)
- Data Acquisition Interface Units (DAIUs) for ADRE® For Windows & 108 Data Acquisition Instruments
- Tunable Filters and Vibration Meters (TK-81s)
- Oscilloscopes

Each VPM Kit consists of a carrying case, a 9-volt battery, instructions and one 15-foot cable. Additional Velomitor-to-VPM cables are optional. The VPM can be switched to “External Power” if an external 24-volt supply is available.
Users of small machines, such as motor/pump sets, struggle to increase machine availability while reducing maintenance costs. Walk-around predictive maintenance programs have helped increase machine reliability but cannot provide the continuous monitoring necessary to provide machinery protection. The 1900/27 Vibration Monitor is designed to provide cost-effective continuous monitoring for essential and general-purpose machinery.

The 1900/27 Vibration Monitor is similar to the 1900/25 Monitor introduced last year but differs in the computer interface. The 4 to 20 mA computer interface is designed so that the overall vibration level can be directly input into a Distributed Control System (DCS) or plant computer. Relay outputs are provided for machinery monitoring.

Like the 1900/25 monitor, the new 1900/27 monitor integrates the input signal from our low cost accelerometer into peak velocity units for display on a digital LCD. It has two single-pole, double throw relay contacts and includes many of the time-proven features available in other Bently Nevada monitors, such as Timed OK/Monitor Defeat, circuit fault detection/indication, programmable options, buffered transducer signal output, relay bypass switches and local and remote reset capabilities.

The 1900/27 monitor can interface with the Trendmaster® 2000 by connecting a Transducer Interface Module (TIM) to the monitor's buffered output terminals. The 1900/27 monitor, when combined with the Trendmaster® 2000, provides a powerful system of on-line diagnostics, automated data collection, DCS interface and machinery monitoring.

The 1900/27 Vibration Monitor and the Velomitor XA are intended for use on machines that transmit a significant amount of vibration from the machine's rotor to the case. Machines with rolling element bearings are typical applications. For more information on any of these products, contact your nearest Bently Nevada representative.