Ultrasonic Flow Transmitters

Clark Solutions' ClarkSonic Ultrasonic Flow Transmitters are ideal for measuring flow of acoustically conductive liquids, including most clean liquids and many liquids with entrained solids. Applications include monitoring flow rates of chilled or heated water as part of a green technology program, as well as in municipal, process and industrial systems. These flow transmitters also free users from having to calibrate the transmitters to fluid temperature, viscosity or density, making them reliable and easy to deploy.

Clark Solutions
Hudson, MA

Critical Machinery Monitoring

The CSI 9330 is the latest in Emerson Process Management's line of vibration transmitters for continuously monitoring rotating machinery. Typically installed on motorfans, motor-pumps, motor-compressors and cooling tower applications, it converts the analog output of an ICPR accelerometer into a 4-20mA signal, proportional to monitored vibration, and delivers patented PeakVue® measurements that provide additional insight into the condition of rotating element bearings and gearboxes. The vibration information is transmitted to any plant's PLC, SCADA or control system.

Emerson Process Management Knoxville, TN

2010 Efficiencies Today

The Energy Independence and Security Act (EISA) will go into effect in December 2010. This wide-ranging law covers many items to promote sustainable energy supplies and energy efficiency, including electric motor effi- ciencies. As mandated by EISA, the efficiency of 1 through 200 hp electric motors (currently regulated by the Energy Policy Act of 1992) will be raised to NEMA Premium® efficiency levels. Baldor Reliance premium effi- cient Super-E® motors, in stock now, offer performances meeting or exceeding EISA levels. In addition, Super-E ratings are available from Baldor distributors across the United States. Custom Super-E designs are available from Baldor through 15,000 hp. Teamed with Baldor V*S Drives and Dodge power transmission products, these units can provide immediate energy savings.

Baldor Electric Company Fort Smith, AR

Earlier Warnings For Bearing Faults

The IMI Sensors division of PCB Piezotronics (PCB®) has released the patented Model 682A05 Bearing Fault Detector that senses impacts within rolling element bearings caused by bearing

faults. This type of detection provides early warning of typical bearing faults such as cracked races, spalling, brinelling, fatigue failure, looseness and loss of lubrication. The product uses a patented true peak picking mechanism that is ultra sensitive to impacts in bearings, and thus provides warning of problems in their earliest stages of development. That type of warning is typically not provided by traditional overall vibration level monitoring techniques. The Model 682A05 Bearing Fault Detector is a stock product, available to customers for immediate delivery.

IMI Sensors
A Division of PCB Piezotronics
Depew, NY

Safety-Rated Plugs/Receptacles

Switch rated welder plugs and receptacles from Meltric offer a solution for new or existing facilities concerned with electrical safety and code compliance. The plugs and receptacles are UL/CSA approved for branch circuit disconnect switching and make and break under full load up to 200 amps. They also simplify compliance to NFPA 70E electrical safety requirements, maintaining a NFPA 70E defined hazard/risk category "0" during electrical equipment connection and disconnection processes. Additionally, there is no need to purchase mechanical interlocks or auxiliary switches with the plugs.

Meltric Corporation
Franklin, WI

Feature-Rich Expanded Instrument Line

Commtest's expanded vbSeries® instrument line now includes five new models: vb5™, vb6™, vb8™, vbBalancer™ and vbBalancer+™. New features offered by these models include true simultaneous four channel recordings, 12 800 lines of resolution and triaxial recording capability. Analyzer and data collector instruments also include an enhanced IP65 rated case and come equipped with Commtest's new 6Pack™ recording system, allowing up to 12

measurements to be taken simultaneously across up to two channels.

Commtest Instruments
Knoxville, TN

Thermocouple Probe With USB Connection

Omega's new TJ-USB Series of thermocouple probes connect directly to a USB port on a computer. All models feature a rugged transition joint construction, an integral 2m (6') shielded output cable, and free user software that converts any PC running on Windows 2000, XP or Vista operating systems into a temperature meter, chart recorder and data logger. This proprietary product is CE compliant and comes with a 1- year manufacturer warranty.

Omega Engineering, Inc.
Stamford, CT

MSHA Approves High Frequency Extraction Solution

The ZERO-GROUND® High Frequency Extraction System (HFES™) has recently been approved by the U.S. Dept. of Labor, Mining and Safety Health Administration (MSHA) for use in underground and surface mines throughout the United States. Engineered for use where AC induction motors are operating in conjunction with variable frequency drive (VFD) applications—as well as other applications where large switching power supplies are used—the HFES solution addresses existing safety concerns and unplanned downtime in conditions

associated with high frequency ground currents.

ZERO GROUND
Waukegan, IL

OSHA Training Manuals

Summit Training Source's What Every Supervisor Must Know About OSHA manual provides guidance for organizations to ensure compliance with Federal Regulations while emphasizing accident prevention. Available in general industry and construction, the manuals cover topics including: An overview of OSHA and how it works; how to read regulations and penalties; steps for how to handle an OSHA inspection; training tips to make your presentation sizzle; accident effects on productivity; and workers' compensation expense and legal liabilities.

Summit Training Source, Inc.
Grand Rapids, MI

Neutralize Acid Spills

WYK Sorbents offers AcidSafe, a fast, safe and efficient method to neutralize and absorb acid spills. It contains an indicator that provides a visible color change to indicate complete neutralization of acid. Personnel safety risks and environmental hazards are minimized. Suitable for fork lift battery and equipment charging stations and other locations with acid spill

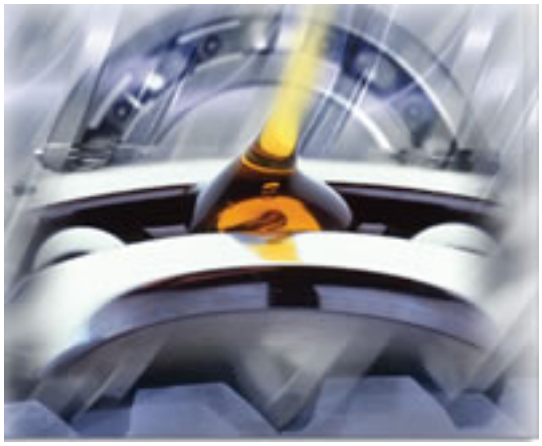
exposure, these products can help a company meet OSHA 29 CFR part 1910 requirements. They are available in easy-to-use shaker cartons, as well as 5-gallon pails, 20- and 55-gallon drums, wall mount stations and spill response kits.

WYK Sorbents
St. Louis, MO

More Efficient & Cost-Effective Turbine Maintenance

In the past, power plants would have to shut down to perform maintenance procedures on their collector rings and brush holders, resulting in costly downtime. Worse, if a ring or brush holder failed, so could the generator. According to Dave Cutsforth, founder of Cutsforth Products and a pioneer in on-line truing, the brush holder is the root cause of most collector ring failures. As a machine rotates, poor contact between carbon brushes and the ring surface causes electrical wear. Poor holder design, foreign materials and improper maintenance are all contributors to this problem. Brushes are designed to be replaced. The ring, with proper maintenance, should last for years. Cutsforth's Easychange Brush Holder System allows for the maintenance of turbines while they are online, totally eliminating the need for a shutdown. Plus, because the actual repair can be done at operating speeds, it has proven to be more accurate and longer lasting than performing a similar process off-line.

Cutsforth Products Inc.
Cohasset, MN



Special Food & Pharma Synthetic For Rolling Bearings

Klüber has introduced Millplex FMG-2 US, a special, synthetic grease for lubricating machine rolling bearings in food and pharmaceutical manufacturing plants (NSF H1 registration is pending). Composed of a synthetic base oil and a calcium sulphonate complex thickener, it is

particularly well suited for use in the manufacturing of grain, meal and pellet animal feeds. Klüber recommends applying Millplex FMG-2 using standard, commercial grease equipment.

Klüber Lubrication
Londonderry, NH

Real-Time Access to Work Orders

MicroMain has announced general availability of MicroMain for BlackBerry, software that expands the company's mobile options for its computerized maintenance management system (CMMS). This new product now enables managers and maintenance technicians to use handheld devices to receive maintenance tasks and information, indicate work accomplished and upload status, hours and additional information to the MicroMain database. All mobile functionality is managed by log-in, which lets administrators determine security, type of data and parameters for specific users.

MicroMain Corporation
Austin, TX

Calculate ROI From Effective Bearing Protection

Inpro/Seal's Return On Investment Calculation Worksheet (ROI/WS) is an Excel spreadsheet worksheet that helps users of pumps and motors quantify the effectiveness of bearing isolators (like the model OM32 pictured here that is used in oil mist applications) when applied to rotating equipment. Once it's downloaded and completed, it allows plants to calculate their own ROI relative to the use of bearing isolators, including benchmarks of current repair costs and the effect of doubling the reliability of their rotating equipment. End users merely plug in their numbers to benchmark the amount of repairs and maintenance dollars saved by installing bearing isolators. The worksheet then calculates the actual costs of the bearing isolators, taking

MTBF and previous maintenance histories into consideration. This Return on Investment Calculation tool is available at no charge from Inpro/Seal.

Inpro/Seal Company
Rock Island, IL

Real-Time Access to Work Orders

MicroMain has announced general availability of MicroMain for BlackBerry, software that expands the company's mobile options for its computerized maintenance management system (CMMS). This new product now enables managers and maintenance technicians to use handheld devices to receive maintenance tasks and information, indicate work accomplished and upload status, hours and additional information to the MicroMain database. All mobile functionality is managed by log-in, which lets administrators determine security, type of data and parameters for specific users.

MicroMain Corporation
Austin, TX