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Next generation Temposonics® design for extreme environments…

MTS ENHANCES SENSORS FOR SEVERE SHOCK AND VIBRATION

CARY, NC– (June 19, 2006) - Building on its next-generation Temposonics® design platform, MTS Systems Sensors Division introduces a new option for magnetostrictive linear position sensing in extreme shock and vibration environments. These more rugged versions of the R-Series and G-Series products take advantage of the patent pending electronic housing and sensing element mechanical suspension system first developed for the mobile equipment market in MTS' M-Series mobile hydraulic product line. With the industry's highest electromagnetic interference immunity and environmental ingress protection, these new products are ideal for the most extreme application environments, such as those found in materials testing and the production of metal, wood and plastic products.

"Our standard products are well-known for their durability and immunity to harsh environmental conditions," said Temposonics Marketing Manager, David Edeal. "Now, taking advantage of improvements created from our experience, a new industrial platform design, and recent developments in our mobile equipment product lines, customers will be able to use our Temposonics G-Series and R-Series products beyond current industry standards."

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These enhancements include elevated shock and vibration operation and life, as well as temperature, electromagnetic and other environmental protection, making the sensors ideal for the harshest sawmill, steel rolling mill, die cast and punch press applications.

Already improved over previous designs, the next-generation Temposonics industrial standard G-Series and R-Series products are capable of continuous operation at external vibration levels of 15 g (10-2000 Hz, IEC standard 68-2-6) and surviving shock levels of 100 g (single hit, IEC standard 68-2-27). Using this new shock- and vibration-resistant design, these products can withstand 30 g vibration without interruption of normal operation. This will help simplify sensor installation design for customers making machinery with unusually high shock and vibration behavior.

Incorporating a unique double-shielded design, all Temposonics R-Series are CE-certified with the industry's highest EMC ratings (Emissions - IEC/EN 50081-1, Immunity - IEC/EN 50082-2 and IEC/EN 61000-4-2/3/4/6, level 3/4 criterion A). Circuitry protection, including polarity to 30 VDC (all conductors) and over-voltage to 36 VDC, help to ensure sensor failure does not occur due to errors in wiring. Visual dual-colored LEDs serve to minimize troubleshooting effort and downtime that might otherwise be associated with the sensor. For example, the diagnostic LEDs can indicate normal operation, programming mode, magnet not detected, missing external interface signals and insufficient or out-of-range input power.

The R-Series model RH, ("rod style") application housing, capable of hydraulic or pneumatic in-cylinder operation (5,000 psi continuous/ 10,000 psi spike), is also rated for IP 67 operation (IP 68 with integral cable) for stroke lengths up to 7.6 m (300 inch.). The RP ("profile style") housing sensor, convenient for mounting to machine surfaces via mounting brackets, is also rated for IP 65 operation at stroke lengths up to 5 m (200 in.). Optional polyurethane cables are available in both configurations for increased flexibility and durability at extreme temperatures.

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As with our standard G-Series and R-Series designs, the new high shock and vibration option is also available with our environmentally approved accessory housings. These include the ATEX- and UL-approved explosion-proof / IP 68 High Pressure Housing (HGH) for hazardous location use, the NEMA Type 4X housing for sanitary and wash down environments, and the high pressure isolation tube for 11,500 psi continuous pressure operation in stroke lengths up to 7.6 m (300 in.).

For more information on Temposonics R-Series Sensors, please contact: MTS Systems Corp, Sensors Division, 3001 Sheldon Drive, Cary, NC 27513. Phone: (919) 677-0100. E-mail: info@mtssensors.com or visit their web site at www.mtssensors.com/Shockvibe.htm.

MTS Systems Corporation is the world leader in magnetostrictive linear position sensing technology. MTS Systems Corporation is a global operation, with facilities in the U.S., Germany and Japan. In the U.S., the MTS Sensors Division has an ISO 9001 facility manufacturing rugged and reliable Temposonics position sensors as well as the highly repeatable and accurate Liquid-Level transmitters and gauges. With a strong commitment to research and development, product quality and customer service, the Sensors Division is constantly seeking ways to bring the highest value to customers.

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To request the electronic image, call 919-872-8172, or e-mail sking@btbmarketing.com.