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FOR IMMEDIATE RELEASE
April 4, 2007 MT762



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Mobile hydraulic sensor re-designed per customer feedback...

MTS ENHANCES MOBILE HYDRAULIC SENSORS FOR RUGGED APPLICATIONS

CARY, NC – (April 4, 2007) — MTS Systems Corp., Sensors Division has built upon its proven mobile hydraulic position sensor technology with the development of an even more robust MH sensor. Combining proven Temposonics® technology with a redesigned lid that provides a stronger wire/cable connection, the MH sensor is ideal for use in welded and tie-rod cylinders, or any space-limited cylinder applications.

“Over the last three years, our experience with customers has proven that the MH sensor is extremely reliable once installed inside the hydraulic cylinder, even when subjected to the harsh conditions found in off-highway machinery,” said Drew Smedley, director of global marketing for MTS Sensors. “One need that customers identified was a more robust wire/cable exit design, primarily to help prevent damage to seals during the installation process.”

In response, MTS engineers developed a sealing system that is more robust to typical handling during installation.

“Most importantly, we designed the mechanics to be completely compatible with the existing design for embedded, in-cylinder applications,” Smedley said.

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With a 100g shock and 25g vibration rating, the MH sensor was designed for rugged environments, especially those typically encountered in construction, agriculture, and other off-highway machinery.

The MH sensor consists of a redesigned sensor head with rugged housing and built-in electronics, a pressure-proof sensor pipe that protects the internal sensing element, and a position magnet. Along with high shock and vibration ratings, the sensor has 200V/m EMI protection.

Designed for cylinders two inches in diameter (or larger), the MH sensor now provides a measuring range of two to 78 inches (50-2500mm), doubling the available stroke length, while maintaining high levels of accuracy and repeatability.

The MH sensor provides four position output options: 0 to 5V, 0 to 20mA, 4 to 20mA, or PWM (16 re-circulations). It is available with a simultaneous velocity output for more precise closed-loop control capability. The MH sensor operates from -40 to +105°C, and can be purchased with either individual wire or cable connection options that are compatible with typical mobile equipment electrical connector requirements.

M-Series sensors meet ISO14982 standards for agricultural and forest machines and ISO7637-0/1/2 standards for road vehicles, and are CE-certified. The MH sensor can be installed from the head side or the rod side of the cylinder depending on the cylinder design.

For more information on the MTS Sensors Group and mobile hydraulic position sensing, please contact: Drew Smedley, MTS Sensors Division, 3001 Sheldon Drive, Cary, NC 27513; call (919) 677-0100; email drew.smedley@mts.com; or visit www.mtssensors.com.

MTS ENHANCES MOBILE HYDRAULIC SENSORS FOR RUGGED APPLICATIONS, PAGE 3

MTS Systems Corporation is the world leader in magnetostrictive linear-position and liquid-level sensor 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 liquid-level and linear position sensors based on patented MTS Temposonics[®] technology. 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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