



MTS Systems Corporation
Sensors Division
3001 Sheldon Drive
Cary, NC 27513
Phone 919-677-0100, Fax 919-677-0200

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For More Information, Contact:
Brian Cox
Technical Marketing Manager
919-677-2355
brian.cox@mts.com

Patricia Staino, BtB Marketing
Public Relations Executive
919-872-8172
patricia@btbmarketing.com

Product overview features sensors to solve any positioning problem...

MTS DEMONSTRATES FLEXIBILITY AND DURABILITY IN MOBILE HYDRAULIC PRODUCT LINE

CARY, NC - (March 12, 2008) -- MTS Systems Corp., Sensors Division has expanded its portfolio of sensors designed specifically for the mobile marketplace. To facilitate specification of the MH sensors a product selector guide has been developed that features the entire mobile hydraulics line of Temponsonics® sensors. MTS' durable, non-contact mobile sensors provide reliable operation under the most difficult conditions including high levels of shock and vibration, adverse climatic conditions and electrical magnetic interference. This makes them ideal solutions for many industries including agriculture, construction, open cast mining, material handling, municipal vehicles, military and other off-road and on-road applications.

“Temponsonics M-Series mobile equipment sensors provide optimum measuring results even under the harshest environmental circumstances,” said Brian Cox, technical marketing manager for mobile hydraulic sensors at MTS. “MTS remains unrivalled in performance standards for non-contact position measurement of the highest precision.”

The M-Series portfolio of products was designed from the ground up with the mobile marketplace in mind, according to Cox. Each sensor is designed to be fully embedded into a hydraulic cylinder and provide reliable and repeatable position feedback for the location of the cylinder.

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The M-series Model MH sensor consists of a rugged housing with embedded 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 provides protection from EMI at levels up to 200 V/m.

“The Model MH sensor is the workhorse of the product line that allows our customers to leverage a common mechanical package while maintaining flexibility in choice of electrical output,” said Cox. “Many of our customers were previously working with analog sensors that they wanted to replace with something more reliable. In many situations the customer had an in-field problem they needed to fix and it was best to replace it with the same style analog output even though future plans included moving the entire line of equipment to a CANbus protocol. With the common mechanical housing and the flexibility of electrical outputs, the changeover to CANbus was a snap.”

The Model MH sensor is an ideal choice for use in welded or tie-rod style cylinders with bore diameters of 50 mm (2 in.) or larger, and is available in analog, digital and CANbus versions. The analog version is available in both voltage (0-5 V_{dc}) and current (0-20 mA and 4-20 mA) outputs, while the newly released MH digital sensor provides a scaled PWM output (5-95 %, 50 - 500 Hz). The MH CANbus sensor is compatible with CAN J1939, CANOpen, and ISOBUS standards providing both cylinder position and velocity information.

For special applications outside of the range of the Model MH two additional sensor models have been created--the Model MS for small cylinder bore applications and the Model MT for applications where redundancy is required.

The M-Series Model MS is a compact sensor designed specifically for use in welded or tie-rod cylinders with small-bore diameters of 38 mm (1.5 in) or larger. The Model MS sensor is available in an analog version with both voltage (0-5 V_{dc}) and current (0-20 mA and 4-20 mA) outputs.

The M-Series Model MT is specifically designed for use in welded or tie-rod cylinders where redundant outputs are required. Its redundant outputs ensure safety and versatility, with two electrically redundant outputs in a single mechanical housing. Newly redesigned, the Model MT is an ideal choice for cylinders with bore diameters 50 mm (1.97 in.) or larger.

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Completing this range of sensors is the C-Series model CM core sensor, designed to be embedded into applications where space is a premium. In some applications it is possible to embed the sensor directly into a mechanical component housing where position feedback is required but space will not allow for a protective housing around the sensor. In this application the mechanical component housing will provide the environmental protection required, thus saving space.

The Model CM H2 sensor is a compact level sensor with a float housing option that allows it to be exposed to the environment. This version is lightweight, less intrusive and offers IP 67 environmental protection.

To request a copy of the mobile hydraulic product selector guide, please contact: Brian Cox, MTS Sensors Division, 3001 Sheldon Drive, Cary, NC 27513; call (919) 677-0100; email brian.cox@mts.com; or visit <http://www.mtssensors.com>.

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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