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New MT ensures maximum safety and versatility in smaller package...

MTS DEVELOPS SMALLER REDUNDANT SENSOR FOR MOBILE HYDRAULIC LINE

CARY, NC - (March 12, 2008) -- MTS Systems Corp., Sensors Division has built upon its proven mobile hydraulic position sensor technology with a smaller sensor that provides fully redundant measurement capabilities. The redesigned Temposonics® MT sensor is a magnetostrictive position sensor specifically designed to be embedded in welded and tie-rod style cylinders or any space-limited cylinder application with its diameter of 48mm, reduced from the original MT sensor's diameter of 58mm.

“We had a number of customers request our successful MT redundant sensor in a size that would fit 2-inch cylinders,” said Brian Cox, technical marketing manager of mobile hydraulics at MTS. “Now we offer our durable, accurate, non-contact magnetostrictive technology in a more compact size, geared to applications where safety is important and redundancy is required or legislated.”

“The key to our redundant sensor is that the redundant outputs are generated by two completely electrically independent sensors housed in a common mechanical housing,” said Cox. “This method provides a true electrically redundant sensor as opposed to many sensors that share a portion of the electrical circuit such as the power supply or the interrogation circuit.”

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Each measurement system is comprised of an independent sensor element and evaluation electronics with separate output signal and supply voltage electronics. The two sensor elements are housed in a pressure-resistant stainless steel pipe for easy installation in hydraulic cylinders. A position magnet, secured to the piston head, travels along the sensor rod without making contact. The resulting redundant sensing system provides highly accurate and reliable cylinder position feedback for the life of the hydraulic cylinder.

The Temposonics MT sensor provides a measuring range of 50mm to 1500mm, while maintaining the high levels of accuracy and repeatability for which MTS mobile products are known. Linearity is less than 0.04% FS and repeatability is less than 0.005% FS.

The Temposonics MT sensor operates over the full temperature range required by mobile hydraulics applications (-40 to +105°C), and comes standard with a robust cable connection that is compatible with typical mobile equipment electrical connector requirements.

For more information on the MTS Sensors Group and mobile hydraulic position sensing, 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.