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MTS Sensors Expands into New Technologies and Launches New Products at Conexpo 2017

CARY, N.C. (March 10, 2017) — MTS Sensors, a division of MTS Systems Corporation (NASDAQ:MTSC), showcased the company’s expanded portfolio of products for the mobile hydraulic marketplace at CONEXPO/IFPE 2017 in Las Vegas March 7-11. At booth #S80518, the company displayed and discussed new threaded versions of its popular magnetostrictive linear position sensors, as well as the addition of new technologies and products resulting from the recent acquisition of PCB Piezotronics Inc. in July of 2016.

“With significant advancements in our core product line and the recent acquisition of PCB®, we have redefined how we serve the construction and aggregate vehicle marketplaces,” said Luka Korzeniowski, Global Market Segment Leader, MTS Sensors, Mobile Hydraulics Division.

“CONEXPO 2017 is our first opportunity to showcase that new strength and diversity. We now have products that measure performance and improve control in areas including steering, suspension, vibration, basic height control, rotational torque and much more. At the same time, we are exploring new ways these technologies work together to provide customers in this industry the best possible solutions.”

At CONEXPO the company is showcasing expanded product offering, including:

New Products from MTS Sensors at CONEXPO 2017

- The **MH-threaded sensor** for mobile applications such as crane outriggers, as well as tank level measurement. Compared to contact based potentiometers and other technologies, these new sensors offer better resistance to wear and a longer life cycle in the field.
- **Signal Integrity Level 2 (SIL-2) compliant magnetostrictive sensors** for use in space constricted hydraulic cylinders. These sensors deliver a Safe Failure Fraction (SFF) of 95% at a Hardware Fault Tolerance (HFT) of 0, and meet IEC 61508 standards.

Recently added technologies and products following the acquisition of PCB Piezotronics Inc.

- **Industrial Accelerometers.** A range of monitoring sensors for predictive maintenance applications, these products are hermetically sealed and provide feedback including dual output temperature and seismic vibration feedback.
- **Pressure Transducers.** Utilizing ICP® amplified output, these products are well-suited for continuous operation in “dirty” environments, underwater, and in field test applications across long cables. They are ideal for virtually all dynamic pressure applications where sensor temperatures range from -320 to +275 °F (-196 to +135 °C).
- **Torque Transducers**, including:
 - **Slip Ring Sensors** designed to mount in-line between a driving source and an absorber or load. They are used in dynamometers, electric motor testing, hydraulic pump testing, fan testing and many other applications.
 - **Rotary Transformer** that offer high accuracies and RPM ratings in rugged industrial applications.
 - The **TORKDISC® In-Line Rotary Torque Sensor System** is a short-coupled, torsionally stiff structure ideal for applications requiring highly accurate in-line rotary torque measurement.
- **Force Sensors.** Quartz piezoelectric force and strain sensors for select dynamic force measurements where strain gauge load cells are impractical or not well suited.
- **Load Cells**
 - **Low Profile Load Cells 1200 and 1400 Series** for general force measurement, torque arms, and testing, including component life cycle, structural, seat structure, bumper impact and vehicle load simulations.

- **Canister Load Cells 1100 Series** for automotive doors, trunks and other component testing.
- **Rod End Load Cells 1300 Series** for use in hydraulic cylinders as well as automotive and durability testing.
- **S-Type Load Cells 1600 Series** for structural performance testing on automotive and vehicle systems
- **Microphones and Other Technologies**

Existing MTS Sensors Products

- **Temposonics® MH-Series Sensors.** Products developed specifically for use in hydraulic cylinders on mobile equipment where accurate control and measurement are needed. They are designed to hold up in harsh environments. Specific protocols include:
 - Model MH Analog sensor with standard voltage and current outputs
 - Model FHM externally threaded sensors with serviceable electronics
 - Model MH Digital sensors with CAN Open, Can Open Safety and Can SAE J 1939 outputs
 - Model MH PWM with frequency output with pulse width modification
 - Model MT redundant sensors with two individual analog outputs
 - Model MS sensors, a compact in-cylinder design with voltage and current outputs
- **Temposonics® HE Sensors** utilizing Hall Effect Technology
- **Temposonics® MXR Sensors** designed for new installations or retrofitting older equipment

“We are focusing our ongoing efforts on technological flexibility – offering choices to meet our customers’ needs,” said Korzeniowski. “With the new technologies from PCB® and our recent advances related to our core magnetostrictive linear positioning sensors, we can now do that better than anyone in the industry.”

Products Used in Fluid Power

Additionally, MTS Sensors will be showcasing the company’s entire line of Temposonics® R-Series linear positioning sensors for use in fluid power and industrial manufacturing applications. These sensors provide a high level of accuracy, require little to no maintenance and employ absolute measurement, eliminating the need for recalibration.

Additional information can be found at www.mtssensors.com or by visiting the MTS Sensors booth S80518 at CONEXPO 2017 in Las Vegas.

About MTS Sensors

MTS Sensors is recognized as an industry leader in sensing technologies and solutions. These sensors permit high-precision and dynamic position and/or speed measurement in state-of-the-art automation and safety-relevant applications. With a versatile and ever increasing product portfolio, MTS Sensors cooperates closely with customers, to optimize performance and reduce downtimes. Outstanding quality associated with practical know-how ensures that customers achieve utmost productivity and success. Continuous research, development and production of sensor systems constantly enable new solutions for measuring tasks in the industrial, mobile hydraulics as well as process technology fields to be created. PCB Piezotronics, Inc. was acquired by MTS Systems Corporation in July 2016 and merged with MTS Sensors. MTS Sensors, a division of MTS Systems Corporation (NASDAQ:MTSC), serves its global customers with a focus on superior regional support.