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**FOR IMMEDIATE RELEASE**  
**October 24, 2005, MT769**



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*New C-Series sensor ideal for OEM and consumer liquid-level applications...*

## **MTS SENSORS DEVELOPS SMALLEST LIQUID-LEVEL SENSOR**

CARY, N.C. (October 24, 2005) — MTS Systems Corp. Sensors Division has developed a new magnetostrictive liquid-level C-Series sensor based on patented Temposonics® technology. This new small sensor is designed for use in OEM and consumer products such as washing machines, dishwashers and other level applications where a float-based measurement can be used.

The C-Series sensor is the smallest liquid-level sensor MTS has produced using Temposonics technology—its electronics fit completely inside a 36 mm (1.4 in) by 23 mm (0.91 in) cylindrical package. MTS engineers developed Application-Specific Integrated Circuits (ASICs) that allow the dramatic size reduction, resulting in a sensor that is optimized for high volume production.

The liquid-level C-Series sensor's modular architecture is built upon a base Core sensor to which additional application-specific features can be added as dictated by the application. This allows customers to avoid costs that are unnecessary for their application, while also allowing them to integrate the sensor completely into their specific product packaging. When more robust environmental protection is required by the application, the modular design of the liquid-level C-Series sensor allows for the addition of standardized IP67-rated packaging that effectively houses the Core sensor.

## MTS Sensors Develops Smallest Liquid-Level Sensor, PG 2

The C-Series Core sensor has a 0 to 5Vdc or PWM output and can be powered with a standard 5 Volt power supply. The modular architecture allows for the addition of a second electronics board that configures the sensor to operate using 12- or 24-volt power and also provides additional protection circuitry for EMI immunity. The optional board was designed to optimize the liquid-level C-Series sensor performance in many mobile machine applications including marine and recreational equipment.

“The lightweight liquid-level C-Series sensor has a small operating space, optimized cost, and outputs in analog or self-interrogating PWM signals, making it an ideal choice to replace older technology sensors,” said Adrian Totten, Marketing and Sales Manager, MTS Sensors Division. “The C-Series sensor brings immediate benefits to the customer, including lower cost due to the elimination of expensive signal conditioning and recalibration and higher reliability due to the nature of magnetostrictive sensor technology.”

For more information on the MTS Sensors Group and level sensing, please contact: Adrian Totten, MTS Sensors Division, 3001 Sheldon Drive, Cary, NC 27513. Phone: (919) 677-2332. E-mail: [adrian.totten@mts.com](mailto:adrian.totten@mts.com) or visit [www.mtssensors.com](http://www.mtssensors.com).

MTS Sensors is the world leader in magnetostrictive technology. MTS Sensors is a global operation, with facilities in the U.S., Germany and Japan. In the U.S., the MTS Sensors Division has an ISO 9001/2000 facility manufacturing rugged and reliable magnetostrictive position sensors, level sensors, and mobile equipment sensors utilizing patented 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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