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Level Plus® transmitters provide continuous level measurement...

MTS SENSORS' RELIABILITY, REPEATABILITY IMPROVE CHEMICAL STORAGE

CARY, N.C. (April 28, 2008) -- MTS Systems Corp. Sensors Division is providing its magnetostrictive Level Plus® transmitters to chemical manufacturers to provide continuous level measurement in storage tanks, reactors, and process tanks. The sensors' accuracy and reliability make them an ideal choice for the storage and processing of liquids that can result in both significant financial loss and harm to people and the environment if misuse or leakage occurs.

"Many of our chemical customers have tried a variety of level technologies for these applications--radar, guided wave radar, ultrasonic, and laser--but they tell us that the MTS magnetostrictive sensors are the most consistently accurate and repeatable devices in their plants," said Lee Aiken, Level Plus product marketing manager, MTS Sensors.

Before installing the MTS transmitters, one customer experienced occasional overflow in its outside storage tanks because of previous transmitter malfunctions, but this has not happened since the installation of the MTS M-Series transmitters.

CHEMICAL COMPANIES CHOOSE MTS SENSORS' LEVEL PLUS, P. 2

According to Aiken, while most level transmitters need to be a certain distance from the side of the tank and have issues with coating, steam, and condensation, MTS' technology eliminates all these factors.

In a magnetostrictive sensor, a sonic strain pulse is induced in a specially designed waveguide by the momentary interaction of two magnetic fields. One field comes from a movable permanent magnet, which passes along the outside of the sensor tube, while the other field comes from an interrogation pulse applied along the waveguide. The interaction of the two magnetic fields produces a strain pulse, which travels at sonic speed along the waveguide until the pulse is detected at the head of the sensor. The position of the magnet is determined with high precision by measuring the elapsed time between the application of the interrogation pulse and the arrival of the resulting strain pulse. Consequently, accurate non-contact, liquid-level sensing is achieved with absolutely no wear to the sensing components.

MTS liquid-level transmitters are designed for easy installation and low maintenance, from which chemical manufacturers are benefiting. The specialty chemical industry requires sensors that can withstand harsh environments while delivering quality performance under those conditions.

The Level Plus M-Series line of liquid level transmitters includes the MG, MR, MC420, and the USTDII. Each transmitter utilizes Temposonics® technology to provide the superior accuracy despite changing environmental conditions such as pressure, temperature, gas layering, foam, or dielectric constant.

The MG and MR transmitters monitor the product, interface, and temperature all from a single process opening. Both are I.S.- and XP-approved. The MG's output can be Modbus, Foundation Fieldbus, or DDA, a proprietary ASCII-based protocol. The Modbus and Foundation Fieldbus protocols provide volume measurement with the usage of up to 100-point strapping tables and temperature correction according to API standards. The output for the MR is one or two 4-20 mA loops with HART.

CHEMICAL COMPANIES CHOOSE MTS SENSORS' LEVEL PLUS, P. 3

The MG and MR are available in lengths up to 300 inches in a rigid stainless steel pipe or with 3A-approved sanitary pipes. Both are also available in a stainless steel flexible hose, up to 480 inches long for the MR and up to 720 inches long for the MG.

The MC420 is an economical solution for customers needing a 4-20 mA analog transmitter with HART. The USTDII is targeted at the underground storage market with its ability to output product, interface, and temperature. It is available with the DDA output in lengths to 149 inches. Both the MC420 and the USTDII have received I.S. approval.

MTS Sensors, a division of MTS Systems Corp., is the global leader in the development and production of magnetostrictive linear-position and liquid-level transmitters. Based on MTS' patented Temposonics® technology, the Sensors Division is continually developing new ways to apply magnetostrictive sensing technology to solve critical applications in a variety of markets worldwide. With facilities in the U.S., Germany and Japan, MTS Sensors Division is an ISO 9001 certified supplier committed to providing innovative sensing solutions that deliver customers with reliable, cost effective sensing devices.

For more information on MTS Sensors and level sensing, please contact: Lee Aiken, MTS Sensors Division, 3001 Sheldon Drive, Cary, NC 27513. Phone: (919) 677-2373. E-mail: lee.aiken@mts.com or visit www.mtssensors.com.

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