FOR IMMEDIATE RELEASE:

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AquaSensors Joins Modbus-IDA and Introduces Modbus Water Sensors

DataStick™ sensors communicate analog values with 24-bit accuracy over Modbus.

Ideal applications include water, wastewater, food, beverage, oil & gas, chemical, and pulp & paper.

Menomonee Falls, Wisconsin: AquaSensors has introduced a Modbus version of its patented DataStick™ family of analytical sensors to the process market. The DataStick systems communicate directly with Programmable Logic Controllers, PCs, and process controllers using Modbus. DataStick sensors are plug and play delivering flawless 24-bit resolution analog data directly over Modbus communications networks to measure pH, ORP, DO, Ozone, Conductivity, Suspended Solids, Turbidity, and Resistivity. This enables PLCs, PCs, and industrial computers to perform in applications that could only be done previously with costly process control and DCS systems.

The DataStick delivers significant cost savings by simplifying installation, maintenance and calibration. The DataStick is remotely calibrated, configured and diagnosed with any computer, HMI, or PLC through a single Modbus cable.

The DataStick has three basic interchangeable parts that increase reliability, simplify maintenance, and lower MRO inventory. These parts are described as follows:

DataStick Sensor body

The DataStick™ sensor body is common to all applications and accepts DataStick sensor heads and DataStick network interfaces. The DataStick has an integrated 24-bit analog to digital converter insuring high quality data. The DataStick sensor body automatically detects the sensor head type connected to it and configures itself to send data through the DataStick network interface module.

DataStick Sensor Head

DataStick's factory calibrated sensor heads are plug-and-play with any DataStick body eliminating the need for lengthy calibrations in the field. This makes it possible to have processes up and running in a fraction of the time it takes with traditional sensors. Signal loss or electrical interference from wiring is eliminated with this feature.

Maintenance and repair is greatly simplified with the DataStick's hot swappable sensor heads. The heads can be changed without replacing the entire sensor and avoids rewiring. No more fumbling around with calibration solutions in the field, simply swap DataStick sensor heads and return to the office or lab for calibration.

Modbus Interface Modules

The Modbus network interface module allows the DataStick to communicate directly to an HMI, PLC or process controller.

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Integrated Sensor System

The DataStick's measurement architecture eliminates the requirement for intermediate analyzers or transmitter boxes. This reduces system costs, increases accuracy, and enables faster installation by eliminating the need to configure measurement scales after installation. The system does not require traditional 4-20 loops for data reporting which further reduces costs and improves system accuracy by eliminating scaling errors.

The DataStick is powered with network power or 9-30 VDC standard control panel power supplies.

MRO inventory is reduced since Network Interface Modules and DataStick bodies are common to all sensor heads.

AquaSensors offers standard fitting shapes/sizes for common mounting applications; AquaSensors engineers can custom design the DataStick body to fit any shape or size of fitting. Sensor bodies are available in CPVC, 316 Stainless Steel, PEEK® and other materials.

AquaSensors is a member of the Modbus-IDA, an organization of independent users and suppliers of automation devices that seek to drive the adoption of the Modbus communication protocol suite and the evolution to address architectures for distributed automation systems across multiple market segments. www.modbus-ida.org. Lenore Tracey, Executive Director of Modbus-IDA, commented, "We are delighted to welcome AquaSensors as one of our newest members, and invite users to learn more about the DataStick product line in our growing Modbus device database." The Modbus device database can be found at: www.modbus.org/companies.php

"Modbus is a perfect match to the DataStick sensors enabling many sensors to be seamlessly networked to a PLC, PC, or process controller", commented Bruce Bathust, president and cofounder of AquaSensors. The high accuracy DataStick modular sensor system enables programmable controllers, industrial PCs, and commercial PCs to perform in a wide range of applications that in the past could only be done with expensive Distributed Control Systems (DCS) or process instruments.

AquaSensors LLC was established to develop revolutionary sensors with integrated digital communications, remote adjustments, interchangeable factory calibrated sensor heads, and plug-and-play installation.

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