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Electrochemistry

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Thermo Fisher Scientific Launches 1100 Series

Series of On-Line Monitors Benefit Users Seeking Simplicity and Affordability

BEVERLY, Mass., (November 20, 2006) – Thermo Fisher Scientific, the world leader in serving science, today unveiled a new effluent and wastewater monitoring series, adding to Thermo Scientific's extensive offering of On-Line products for customers in the power generation market. The 1100 Series for pH/ORP, Dissolved Oxygen and Conductivity is designed for ease-of-use and reliability for users at any skill level.

Thermo Scientific, an industry leader in electrode technology with its Orion product line, developed the 1100 Series to offer a full breadth of capabilities to meet customer needs. The new monitor systems, designed for value and flexibility in ultra-pure steam loop for power generation, offer a basic feature set for routine measurements and an intuitive, easy-to-use interface.

"At Thermo Fisher Scientific, we understand that power generation encompasses a variety of challenging applications, many of which are critical to maintaining turbine integrity and efficiency. Today, monitoring power plant effluent and regulating wastewater treatment measurements is vital to human health and the protection of our environment," noted John Radosta, US sales manager, for Water Analysis Instruments at Thermo Fisher Scientific. "With that in mind, we developed the new, easy to install 1100 Series On-Line instruments, offering simple operation and accurate results. Most important, the 1100 Series brings our industry leading technology to users with any level of experience."

Rugged and affordable, Thermo Scientific's Orion 1100 Series is built to withstand the demands of continuous on-line use in severe conditions, and it is ideal for measurements in various applications around the plant. The series of monitors combines simple six-button operation with a large, liquid crystal display and exceptional long-life performance. In addition, the monitors have an IP66 rating, which provides protection from harsh industrial environments. Thermo Scientific's new 1100 Series includes the following:

- **Orion 1102PH pH/ORP monitor:** The monitor features auto-buffer-recognition to provide users with a choice of US, NIST and Pure low-ionic pH buffer standards. Featuring quick and easy calibration, high accuracy and simple operation, the Orion 110201PH monitor and electrode packages include a choice of rugged bulb gel-epoxy electrodes with a ¼ MNPT connection and built-in ATC. The Orion 110202PH monitor and electrode package offers a flat surface gel electrode with a ¼ MNPT connection and ATC best suited for dirty, viscous samples. The Orion 110250ORP package includes a general purpose ORP (Redox) sensor, platinum with platinum ground and double junction design-ideally suited for difficult industrial ORP measurements.

- **Orion 1103DO Dissolved Oxygen monitor:** This monitor incorporates superior Galvanic oxygen probe technology where there is no start-up or 'warm-up' time, and the probe takes only 40 to 50 seconds to attain 95% of actual readings saving time and maximizes uptime. Calibration is quick and easy using the atmospheric air as the calibration media for 100% air saturation. Minimal maintenance and maximum performance in one easy to use system for all of your ppm level DO needs.
- **Orion 1104CD Conductivity monitor:** This monitor offers the flexibility of seven ranges in a single controller and a maximum measurement range of up to 1000 mS/cm with proven accuracy and precision. The Orion 1104CD monitor meets the demands of harsh industrial environments across a wide variety of applications, optimizing process control. Thermo Scientific's 2-cell stainless steel electrodes with 0.1 or 1.0 cell constants offer the flexibility to match probe capabilities to a plant's requirements, from ultra-pure to process water.

For more information about the 1100 Series or any of Thermo Scientific's water analysis products, please visit www.thermo.com/water.

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