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Electrochemistry

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Thermo Electron Introduces Powerful and Convenient Orion 5-Star pH Meter

New Addition to the Orion Star Series Offers Accuracy and Precision in a Handheld Unit

BEVERLY, Mass., (July 28, 2006) – Thermo Electron Corporation, a world leader in electrochemistry technology, today announced the Orion 5-Star pH meter, the newest addition to Orion Star™ Series, a line of meters, electrodes, accessories and solutions for electrochemistry measurement. The portable Orion 5-Star meter is capable of measuring pH, mV, salinity, TDS, ORP, dissolved oxygen and conductivity, and can be purchased by itself or in a convenient package including all electrodes, buffers and a field case.

Designed to respond to customers' needs for simultaneous measurement and display of pH, conductivity, DO and temperature measurements, the Orion 5-Star meter is designed to meet the IP67 waterproof rating, ensuring that it stands up to the most demanding field measurement conditions. In addition, the unique Smart Averaging™ feature in the Orion 5-Star provides faster meter response time and increased accuracy and precision without user intervention.

"A major university in Germany is already using our Orion 5-Star meter kit to test the water quality in mountain streams and determine the environmental effects of pollutants such as acid rain," said Anand Shirur, vice president and general manager of Water Analysis Instruments at Thermo Electron. "They are most excited about the convenience of Orion 5-Star, especially the ability to test multiple elements in an easy-to-use, transportable field case. For the university and all our customers, the Orion 5-Star will bring lab-quality measurement to the field."

Significant features of the Orion 5-Star pH meter include:

- Waterproof minDIN locking electrode connectors to ensure a secure connection;
- Smart integration between the conductivity and DO channels such that the meter uses the salinity measurement from the conductivity probe for a more accurate DO measurement
- Auto buffer recognition to improve ease of use;

- 200 point datalogging including time and date stamp;
- Custom backlit display for visibility in low light environments;
- Star Navigator 21™ Software to enable compliance with the FDA 21 CFR Part 11 regulation.

For more information about the Orion 5-Star Electrochemistry pH Meter, the Orion Star Series meter line or any of Thermo's water quality products, visit www.thermo.com/water.

About Electrochemistry: The Orion and Russell Electrochemistry Products from Thermo Electron, Water Analysis Instruments are ISO 9001:2000-registered manufacturer of quality chemical measurement products. The products include meters, electrodes and solutions for the measurement of pH, select ions, dissolved oxygen, conductivity and titration where accuracy, quality and consistency are absolutely critical. Thermo Electron also offers a complete line of colorimeters, syringe pumps, microbalances and Pure Water™ online process monitors.

About Thermo Electron Corporation: Thermo Electron Corporation is the world leader in analytical instruments. Our instrument solutions enable our customers to make the world a healthier, cleaner and safer place. Thermo's Life and Laboratory Sciences segment provides analytical instruments, scientific equipment, services and software solutions for life science, drug discovery, clinical, environmental and industrial laboratories. Thermo's Measurement and Control segment is dedicated to providing analytical instruments used in a variety of manufacturing processes and in-the-field applications, including those associated with safety and homeland security. For more information, visit www.thermo.com

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