



## press information

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### **New Foxboro pH sensor line doubles service life, reduces costs in demanding applications**

*Patent pending pH glass formulation proven to improve stability, accuracy and performance, while increasing speed of response*

**CHICAGO – ISA SHOW – Booth 3609 – October 21, 2002** – The Foxboro Measurement & Instrument Division of Invensys Production Management, demonstrated here today a new family of pH sensors designed to improve operation in traditional problem areas within harsh process applications. The new *DolpHin*<sup>™</sup> sensor line incorporates patent pending measurement and reference technology that has proven to perform more than twice as long as traditional pH sensors in harsh applications. The new Foxboro pH sensor line also contributes to cost savings in maintenance and equipment by significantly reducing cleaning, calibrating, and replacement requirements.

"We were replacing another brand of pH sensors on this application every two weeks. The DolpHin sensor has lasted 6 months, which resulted in substantial savings. We are very pleased and fixing to buy more," Wyatt Partney, Sr. Control Systems Technician, Eastman Chemical Co. Longview, TX

The unique pH glass formulation provides superior measurement stability and accuracy, and longer service life in high temperature applications up to 250 degrees F. (121 degrees C). The pH glass also increases response speed up to five times and allows longer duty cycles, compared to conventional sensors. The new reference electrode construction includes an ion barrier to protect and stabilize the reference potential in harsh conditions. Both electrodes are packaged in a rugged mechanical housing that facilitates installation, removal, cleaning, and calibration, reducing maintenance time and costs.

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“DolpHin's long life and stability deliver measurable improvements to our customers' operating budgets,” says John McKenna, president of the Foxboro Measurement and Instrument Division. “A medium-sized chemical plant can realize savings of \$20,000 per year attributable to fewer probe replacements and fewer maintenance calls. DolpHin's high accuracy and fast response also deliver tighter process control, resulting in enhanced product quality and additional cost savings,” McKenna says .

The DolpHin line is available in flat and domed versions. The flat glass design promotes self-cleaning for longer service before operator intervention. The domed glass design operates longer and more accurately at high temperatures than conventional process pH sensors.

The DolpHin Series sensors are designed for process industry applications that span the entire pH scale, have strong chemical concentrations and high solids, run at high temperature, and cycle from high to low temperature. These include:

- Chemical and petrochemical manufacturing in reactors, scrubbers, etc.
- Pulp and paper manufacturing in bleaching, thin stock, thick stock, and head box
- Dairy processes for cheese processing and CIP (clean in place)
- Electronics and metals processes involving etching, slurries, and metal finishing
- Industrial and municipal waste water treatment, from incoming to final effluent

For more information on the DolpHin pH sensor line, or other advanced Foxboro measurement and instrument devices, readers can contact their local Invensys/Foxboro representative, the Invensys Customer Satisfaction Center via phone (1-866-746-6477, or 508-549-2424 outside of the US) or email ([ips.csc@invensys.com](mailto:ips.csc@invensys.com)). The new DolpHin line can also be purchased on-line at <http://www.iastore.com>.

## **ABOUT INVENSYS**

Invensys plc is a global leader in production technology and energy management. The group helps customers improve their performance and profitability using innovative services and technologies and a deep understanding of their industries and applications.

Invensys' Production Management works closely with customers in order to drive up performance of their production assets, maximize their return on investments in production technologies and remove cost and cash from their whole supply chain. The division includes

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APV, Avantis, Baan, Eurotherm, Foxboro, SimSci/Esscor, Triconex and Wonderware. These businesses address process and batch industries -- including the oil, gas and chemicals, food, beverage and personal health care -- and the discrete and hybrid manufacturing sectors.

Invensys' Energy Management works with clients involved in the supply, measurement and consumption of energy and water, to reduce costs and waste and improve the efficiency, reliability and security of power supply. The division includes Energy Management Solutions, Appliance Controls, Climate Controls, Global Services, Metering Systems, Powerware and Home Control Systems. These businesses focus on markets connected with power and energy infrastructure for industrial, commercial and residential buildings.

The company also serves the specialized rail, wind-power and electronic manufacturing (power components) markets through Invensys Rail Systems, Hansen Transmissions and Lambda, respectively, in its development division.

Invensys operates in more than 80 countries, with its headquarters in London.

For more information, visit [www.invensys.com](http://www.invensys.com).

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