



## IN THIS ISSUE:

### Editorial

Page 2

### Recognition to Smar Technology

Page 3

### Asset View: Smar's New Fieldbus Management System

Page 4

## Metso Automation and Smar - Fieldbus Technology

Smar and Metso Automation are working strategically in the area of Foundation Fieldbus technology. Smar will license its Foundation Fieldbus HSE (High Speed Ethernet) technology to Metso Automation for integration in metsoDNA automation and information management solutions.

Smar is recognized for having the most advanced software and hardware available in Foundation Fieldbus technology and understands how to deliver solutions. Foundation Fieldbus is one of the most powerful digital communication standards used in process automation plants today.

Metso Automation specializes in automation and information management application networks and systems, field control solutions and lifecycle services. Primary customers are pulp and paper, energy and hydrocarbon industries.

Metso Automation operates worldwide and has sales and support units in 37 countries throughout Europe, North and South America, Asia, Australia and Africa. In 2000, Metso Automation's net sales were EUR 644 million. The number of employees totals 4,600.

Metso Automation is part of Metso Corporation of Finland. Metso's other businesses include Metso Paper, Metso Minerals and Metso Ventures (includes

Metso Engineering and Valmet Automotive). Metso employs about 32,000 people worldwide. Metso's shares are traded on the Helsinki and New York Stock Exchanges.



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The end of a year is always an ideal time to reflect upon significant achievements and review plans for the future. Smar, as a company, does this each and every year.

There have been several achievements during the past year. Projects with the Los Angeles Water Board, U.S. Navy and Pegaso (Petrobras) in Brazil represent Smar's most recent successes. Some of these projects were significant for a young company like Smar, but reflect our customer's confidence in our technology. Technology transfer agreements with Endress+Hauser and Metso Automation point to a level of acceptance and technical expertise inherent with Smar.

Regarding product development, Smar again demonstrated an industry first by

introducing the DT301. This revolutionary density measurement device has proven extremely successful within a very short period of time. We've already sold more than 300 throughout the world.

Development of Process View software (an extremely powerful human machine interface), Foundation Fieldbus approval of HSE and our DFI point to the never ending list of Smar "firsts".

We are pleased with 2001's results and welcome 2002 with optimism and renewed focus. We look forward to developing new relationships with clients, representatives and end-users and wish to take this opportunity to thank all those who have been a part of Smar's success for the past 27 years.

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## Smar Technology Recognized

### Smar's New Products Receive US Patents

Smar's DT301 (The Touché) sales have surpassed the 300 mark this year. It's interesting to note that this density and consistency gauge was launched just one year ago. In the alcohol and sugar industry, it has been used in dozens of applications including measurement of Brix, liquid interface measurement, alcohol concentration, etc.

The intelligent FY positioner has become a standard solution with valve manufacturers around the world. The instrument not only enables better control, but also provides a remote calibration feature, self-test function and Fieldbus protocol. All of these features help significantly to simplify facility maintenance and start-up routines.

The DT301 and FY are only two of the instruments representing Smar's patented technology.

Smar has an experienced team of engineers dedicated to research and development. Their efforts transform customer requirements into useful products each and every day.



## Foundation Fieldbus Q & A

Foundation Fieldbus technology is complex. To help customers understand this new technology and its benefits Smar has produced a practical Question and Answer guide to assist in systems evaluation.

The pamphlet answers some of the most frequently asked customer questions and concerns. It provides answers to questions such as: which computer to use; how much energy will each field device consume, or, how many function blocks can I place in a device.

To order your Q&A guide, please feel free to e-mail us at: [sales@smar.com](mailto:sales@smar.com), or you may contact us at 1-800-SMARTEE.



## AssetView: Smar's New Fieldbus Management System

Smar is introducing AssetView, a new Fieldbus Asset Management System to the market. This product records inventory and history of operations carried out in industrial plants such as maintenance, calibration, parameterization and replacement etc.

AssetView's comprehensive database provides information for several plant maintenance operations. Examples include corrective measures and defect diagnosis; predictive measures (from historical data), statistical analysis; scheduled preventive and proactive maintenance activities.

This innovative maintenance approach is now possible due to Fieldbus Information networks which bring digital technology and connectivity to plant floor. Through fieldbus, information is easily communicated and transferred to AssetView and provides a platform for technical and engineering analysis of plant wide activities.

AssetView can provide major savings in



manpower and help to eliminate or dramatically decrease plant shut downs.

Contact Smar today and see how AssetView can improve your plant's process and profits.

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