

FISHER-ROSEMOUNT

Your Partner in the New Millennium

Fisher-Rosemount, the worldwide leader in process measurement and control, enters 2001 with an exciting lineup of products, systems, and solutions for almost any field automation application. Leading the way is eFlow™, an Internet-based e-technology that promises to revolutionize the way field data is collected, processed, and distributed.

Collectively the companies that make up Fisher-Rosemount, along with our Representatives and Sales Offices worldwide, have the resources you need to solve all of your measurement, control, and process management problems. To discuss your specific needs with our experienced Applications Engineers, please stop by booth No. 834. In the mean time, this newsletter will take you on a virtual tour of our booth and bring you up to date on the latest news.

Products and Applications on Display

Here's what you'll find at booth 834. The numbers to the left of each item refer to locations on the booth layout diagram.

Welcome Station

Stop here for general information, literature requests and promotional items. You can also schedule time for one-on-one meetings with Fisher-Rosemount personnel attending ENTELEC.

eFlow™ Display

See how eFlow Internet Measurement Services provides a compelling cost justification model for flow chart replacement. Now, for one low monthly fee, you can gather, process, report, archive, and view critical flow information from your wellsites on any PC connected to the Internet.

New Products Display

1. ROCLINK™ for Windows is the newest Microsoft Windows-based configuration software for use with the entire ROC and FloBoss product families. It's powerful, versatile, and extremely easy to use.

2. RegFlo™ brings electronic pressure and flow estimation to the Type EZR Regulator. In addition to the storage of pressure and flow data, it also provides alarm and diagnostic functions.



3. The FloBoss™ S600 is a line-powered flow computer that offers a new standard in performance, ease-of-use, and flexibility for oil and natural gas applications such as fiscal metering, custody transfer, batch loading, and meter proving.

Energy Metering Display

4. The DANALYZER™ Gas Chromatograph, teamed with the FloBoss 407 flow computer, measures gas flow in BTUs per hour.

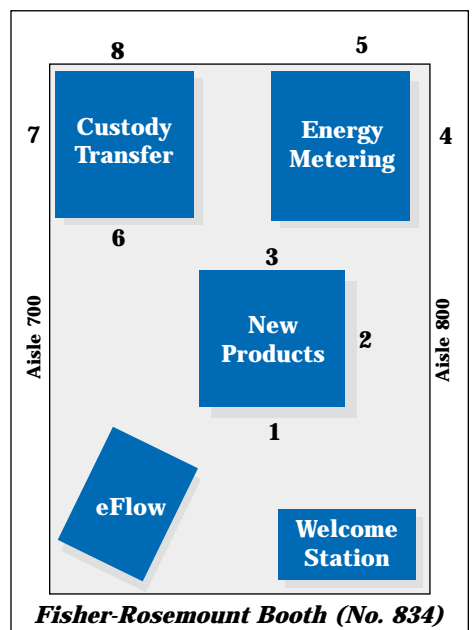
5. The Steam Applications software adds water and steam energy calculations capability to ROC300-Series and FloBoss 407 products.

Custody Transfer Display

6. The FloBoss 407 multi-run flow computer, with applications software, is teamed with the Daniel SeniorSonic™ flow meter to demonstrate the increasing popularity of non-intrusive primary elements.

7. The FloBoss 504 turbine flow computer is teamed with the Daniel MiniMeter™ Gas Turbine Meter. It provides wide rangeability, high accuracy, and high-resolution pulse outputs.

8. The FloBoss 553 flow computer is designed for Class I Division 1 locations and is being displayed with the Daniel 2" orifice fitting in an orifice metering application.



FloBoss, eFlow, ROCLINK, RegFlo, SeniorSonic, DANALYZER, and MiniMeter are marks of one of the Fisher-Rosemount family of companies. All other marks are the property of their respective owners.

Emerson and Fisher-Rosemount..Industry Leaders!

Fisher-Rosemount was formed in 1993 when two leading process instrumentation suppliers, Fisher Controls and Rosemount, merged under the ownership of Emerson. Today with the addition of Daniel Industries, the Fisher-Rosemount family of companies serves the oil and gas industries through offices, factories, and service centers around the world.

Daniel, and Fisher Controls, are two of the oldest and most respected names in natural gas measurement and control. As part of the Fisher-Rosemount team, they have the combined resources to be the premier, single-source supplier of wellsite-to-pilot light products, systems, and services offering the best in product quality, product selection, engineered solutions, and pre- and post-sale support anywhere in the world.

Fisher-Rosemount solutions begin at the well site and end at the pilot light.

We have the products and expertise to meet the challenges you face every day to make your operations more efficient and profitable in the face of increasing government regulation, tighter budgets, and reduced manpower.

Here are a few facts to consider when selecting your process automation supplier:

- Emerson is a fortune 100 company whose sales in 2000 exceeded \$15 billion.
- Emerson has more than 60 divisions selling products in more than 150 countries and has 170,000 employees.
- Fisher-Rosemount is the global leader in process automation sales.
- Daniel is one of the world's largest producers of measurement products for custody transfer of natural gas flows delivered via pipeline.
- Fisher Controls has received nearly three-times more patents than

its nearest competitor over the past 25 years and has the largest privately-owned research lab of its kind in the world.

- Fisher Controls' products are sold and supported by 33 U.S. representatives in over 100 locations. Worldwide, Fisher has over 90 representative offices in over 160 locations.
- As reported in the January 2000 issue of CONTROL magazine, users have again chosen Fisher-Rosemount as the top supplier of process management products. Fisher-Rosemount companies also stood out in service, winning high marks in twice as many service categories as the second-place supplier.

Future acquisitions by Emerson will further strengthen our capability to deliver world-class products, solutions, and services to our customers.

ROC and FloBoss Users Benefit from New ROCLINK™ for Windows™ Software

ROCLINK for Windows is the newest evolution of Windows-based configuration software for Fisher-Rosemount's Remote Operations Controller (ROC) and FloBoss™ Flow Manager product lines. It takes the flexibility and power of the original ROCLINK software and integrates it with the Microsoft® Windows operating system for an unbeatable configuration software package.

ROCLINK for Windows incorporates the features ROC and FloBoss users need for fast, efficient operation. For example, the entire family of ROC and FloBoss products can be configured and operated using ROCLINK, a great convenience and time saver when more than one type of product is installed at the same site. And it is compatible with older ROC and FloBoss units as well. Special meter set-up screens provide all parameters necessary to set up any ROC or FloBoss product for either orifice or turbine flow metering.

Control functions are easy to implement using ROCLINK. Fisher-Rosemount's unique Function Sequence Table Editor lets users implement logic and sequencing control in any ROC or FloBoss product. Likewise, special screens are dedicated to configuration and tuning of PID control loops.

Operator tools, such as On-Line Help screens, are accessed either from the Help menu or in a context-sensitive fashion for ease of use. And, Selective Information Display shows only information relevant to the device being configured or operated, reducing clutter and operator confusion.

A Windows Explorer-style menu tree makes navigating among the key functions provided by the software quick and easy. Drop-down menus simplify accessing the functions provided by the software. Dialog boxes and drop-down list boxes help to direct selections and data entry. Actions can be performed with the keyboard and a pointing device such as a mouse.



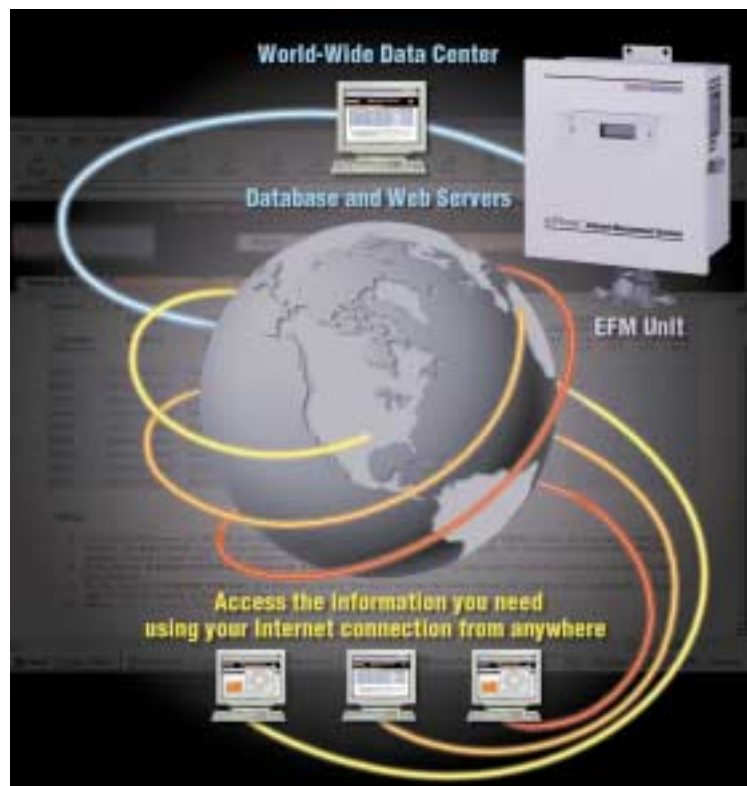
eFlow™ Internet Measurement Services Promises to Revolutionize Flow Measurement

Fisher-Rosemount, the leader in process control technology and solutions, introduces eFlow™ Internet Measurement Services, a revolutionary new e-technology. eFlow harnesses the power of the Internet to gather, process, communicate, and distribute critical information about natural gas operations to personnel throughout an organization.

eFlow manages data transfer between the EFM devices installed in the oil or gas field and the Internet. Rather than use one type of communication technology for every user, the needs of each application are matched to the appropriate technology to provide the best performance and economic fit.

By using eFlow to manage data collection, users can expect low monthly rates for data collection, detailed billing information, and fewer missed data reads. The EFM device is polled for information as many times as needs dictate. A "Poll-On-Demand" feature allows quick updates of critical information from the EFM device via the Internet.

Because eFlow can collect, store, and present data from almost any manufacturers' EFM devices, all volume data is consolidated into one easy-to-reach location. Users will find it much easier to aggregate volumes and import data into accounting software. This feature is also available to users who want to retrieve their own data from non-communicating EFM devices or chart recorders and then place it on the web.



To learn more about eFlow and how it can benefit you, we invite you to attend our technical presentation on "The Electronic Gas Field, from Paper Recorders to Web-Based Systems." The presentation is scheduled for Tuesday as part of the Emerging Technology session. Check the technical conference schedule for the exact time.

eFlow Deliverables

For a low monthly fee, eFlow gives personnel at all levels of a company access to field data 24 hours a day, seven days a week. Included are:

- Two polls per day for API Chapter 21 audit trail information using cellular communication.
- Unlimited data storage and un-interruptible power supply backup protection.
- Around the clock customer support and monitoring of communication links.
- Data access through the World Wide Web.
- Data security using 128-bit encryption.
- Reports that can be downloaded and distributed to anyone, anywhere in the organization.
- Supervisory control functions that can be initiated from any computer connected to the World Wide Web.
- Automatic notification of alarm conditions.
- Access to data using poll-on-demand feature.
- Integration of flow data into gas accounting, recalculation, and other software packages.

Low-Cost EFM Unit

The eFlow electronic flow measurement (EFM) unit is Fisher-Rosemount's answer for a low-cost, chart-replacement device that provides accurate measurement at the wellhead, pipeline, or gathering system. The EFM unit provides gas producers, operators, and pipelines with high performance orifice-plate measurement at a cost comparable to chart recorders.

Introducing the FloBoss™ S600 Line-Power Computer

The FloBoss S600 Flow Computer offers a new standard in performance, ease-of-use, and flexibility for fiscal metering, custody transfer, batch loading, meter proving, multi-stream applications, station monitoring/control, and similar applications requiring a high-speed, flexible flow computer. Here are a few of its capabilities:

- Handles both oil and gas applications
- Measures and controls up to 6 streams (standard) and up to 10 streams (rack-mounted version)
- Connects to all common types of flowmeters
- Performs PID control
- Performs batch totals and correction
- Performs flow balancing and scheduling
- Calculates to American and European standards.

Despite its high computing power and extended capabilities, the FloBoss S600 is extremely easy to set up and use. The unit is supplied with a special configuration package that gives you fast, intuitive control from a PC. Featuring Windows compatibility, this tool allows you to implement a wide range of time-saving options, such as template-based programming and instant configuration, plus automatic generation of documentation, reports, Modbus registers, wiring schedules, and front panel displays.



DANALYZER™ Gas Chromatograph is Most Popular for Pipelines

The Danalyzer Gas Chromatograph is installed for custody transfer measurement on more pipelines worldwide than all competitive units combined. Danalyzer Gas Chromatographs provide high reliability, advanced technology for stream-component analysis and BTU calculations, and “out-of-box” startup.

Units can be mounted outdoors without a shelter, thereby reducing installation costs and sample-line runs, and can be operated from a control room or on-site. Four field-configurable ports plus a parallel printer port provide flexible communications options. When teamed with the FloBoss 407 flow computer, real-time gas flow in BTUs per hour can be measured.

Gas Turbine Meters Feature Unique Design

Daniel Gas Turbine Meters are an example of our expertise and leadership in flow measurement. They are ideal for measuring volumetric gas flow in combination with the FloBoss 504 flow computer.

The meters are unique in their design, having fewer moving parts because of their patented electronics. They provide wide rangeability, high accuracy, and high-resolution pulse outputs. Gas turbine meters are available in sizes from 4 through 12 inches and 1 through 3 inches in the MiniMeter series.



MM161/CD

SeniorSonic™ Meters Now Measure Lower Flow Rates



Recent developments in technology now allow using Daniel SeniorSonic™ meters for custody transfer applications with flow rates as low as 1 ft/sec. A single meter can now cover the entire flow range. This advancement has been made possible by improvements in meter design, digital electronics, and the availability of low-flow calibration services. The SeniorSonic is ideal for measuring volumetric gas flow in combination with the FloBoss 407 flow computer.

Ultrasonic Flowmeters create minimum pressure drop, have no moving parts, require no calibration or lubrication, and provide measurement independent of gas conditions. They are bi-directional and offer large turndown for wide rangeability. SeniorSonic™ meters for custody transfer applications feature four direct ultrasonic paths to sample the flow profile and will even handle “swirl”. Accuracy is within 0.5% for meters 12” and larger, within 1% for 6” through 10” meters.

FISHER-ROSEMOUNT™