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May 2009

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FOUNDATION BRIEFS

Four systems first to pass new host profile registration process

Four initial FOUNDATION fieldbus host systems from three manufacturers have passed the Fieldbus Foundation's new Host Profile Registration Process. They include:

- Yokogawa's Stardom network-based control system and Centum VP integrated production control system;
- ABB's System 800xA Extended automation product; and
- Emerson Process Management's DeltaV digital automation system using AMS Suite intelligent device manager.



The Fieldbus Foundation is among a select few automation industry organizations with a registration program that requires mandatory testing of the critical elements of its technology. The effort encompasses physical layer components such as power supplies and device couplers as well as FOUNDATION fieldbus host systems and field devices.

The Host Registration Program was established as a key initiative for the global automation industry. Under the registration process, fieldbus hosts successfully completing the test requirements are authorized to bear the official FOUNDATION product registration symbol. Hosts may include configuration tools, recording devices, alarm display panels, human-machines interfaces (HMIs), or systems with a combination of functionality.

The program benefits automation suppliers and end users by providing a new level of consistency in a multi-vendor FOUNDATION fieldbus environment. Host registration extends the robust device-to-device interoperability and integration the industry has enjoyed since 1998 to varying manufacturers' host systems and multiple devices.

In addition, automation suppliers are now implementing host applications that use enhanced Electronic Device Description Language (EDDL) features. EDDL is a universal interface to diagnostic, real-time, and asset management information contained in millions of field instruments from leading automation manufacturers. Enhanced EDDL allows users to interact with devices in new ways, including improved data visualization and display capabilities such as waveforms and valve signatures, a standardized method to access historic measurements or device performance information, and enhanced tools for high-level information (such as algorithmic relationships for complex device parameters) display and use in control systems.

The Fieldbus Foundation's previous Host Interoperability Support Test (HIST), which provided a host test protocol while the host vendor chose the implementation, has evolved to a comprehensive Host Profile Registration Process in which the foundation conducts functional testing with a test device and specialized Device Descriptions (DDs) and Capabilities Files (CFs). The host profile under test must support a clear set of required features. The host registration program gives host suppliers access to standardized test requirements and test cases for all hosts within a profile tested to the same requirements; standardized DD and CF files assuring hosts can parse files; and standardized test devices for all basic I/O function blocks and specialized test transducer blocks.

Calling the initial host registrations an "important milestone" in the growth and implementation of FOUNDATION fieldbus, Fieldbus Foundation President and CEO Rich Timoney said, "Host registration provides an extra measure of confidence that fieldbus systems incorporate the robust functionality of FOUNDATION technology and are able to function as part of an open, interoperable control system. The Host Profile Registration Process is another example of the Fieldbus Foundation's commitment



to full interoperability, and seamless integration, within a fieldbus environment.”

Within the Fieldbus Foundation's automation infrastructure, interoperability is made possible because devices and software must conform to the same standard. Products bearing the FOUNDATION Product Registration symbol have undergone a series of common tests audited by the Fieldbus Foundation. End users can select the best device for a specific measurement or control task, regardless of the manufacturer.

Amit Ajmeri, consultant—FF & Asset Management Solutions, Yokogawa Corp. of America, commented, "Yokogawa is very pleased to be one of the first companies to complete the Host Profile Registration Process for the Centum VP integrated control system and Stardom network-based control system. Yokogawa continues its commitment to support FOUNDATION fieldbus technology and promote the solution by demonstrating interoperability and compliance to the updated FOUNDATION requirements."

Said Mark Taft, ABB's group vice president, Global Sales & Marketing, Control Systems Business, Process Automation Div., "Being among the first of the automation suppliers to complete the most recent Host Profile Registration Process is just one more indication to end users that ABB is serious about delivering products and solutions that the industrial users demand and can benefit from. As indicated by the statements from the foundation, this process was established by the End-User Advisory Council, not by the product manufacturers. Finally, the end users can reasonably evaluate solutions in a consistent way rather than trying to make sense of supported features and functions from the previous HIST methods."

Noted John Berra, chairman of Emerson Process Management: "We congratulate the Fieldbus Foundation for advancing its host testing into a complete registration program, and we are pleased that our DeltaV system with AMS Device Manager is one of the first registered hosts. Open interoperability continues to be a clear win for our customers, and always part of our practice. The requirement of host registration, and the facilities and resources to carry it out, will support further growth of FOUNDATION technology. As an example, the new registration includes host applications like our DeltaV system with AMS Suite that use enhanced Electronic Device Description Language (EDDL) to provide exceptional and consistent presentation of real-time, diagnostic, and asset management information as supported by all registered FOUNDATION fieldbus products."

The FOUNDATION fieldbus Host Test Kit DD Application Test Module, developed in cooperation with the Fieldbus Foundation's End User Advisory Council (EUAC) and System Integration and Maintenance team, was driven by end users to bring about consistent interoperability between hosts and devices regardless of the host supplier. Specifications now include profiles for functionally different hosts and the appropriate features that apply to each profile.

To learn more about host registration, visit the [Fieldbus Foundation Website](#).

A list of all registered FOUNDATION fieldbus products is also available on the [Fieldbus Foundation Website](#).

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GLOBAL NEWS & EVENTS

German Marketing Committee coordinates Interkama,ACHEMA activities

Using the theme of "Tea & Technology," the Fieldbus Foundation German Marketing Committee invited visitors to its Interkama trade show stand to sample a choice of 30 different specialty teas while discussing displays demonstrating FOUNDATION technology from 16 of the world's leading automation equipment suppliers. The exhibition and



conference took place in Hannover, Germany, April 20-24.

As in previous years, the Fieldbus Foundation occupied one of the largest stands at the show: a 200 sq m corner location in Hall 7, which is dedicated to process automation technologies. Participating Fieldbus Foundation members presented their registered devices, host systems, tools, and services to current and prospective users of FOUNDATION technology using static displays or live demonstrations on and between the stand's purpose-built kiosks.

Expressing delight at yet another successful Interkama show, Marc Van Pelt, vice-president-Fieldbus Foundation EMEA Operations, said: "Year after year, the adoption of FOUNDATION technology continues its unparalleled growth in process automation projects across the world—providing a total control system infrastructure that enables significant plant performance and economic improvements. Many businesses are currently experiencing challenging times, but it is also an exciting time in terms of the many technological advancements of FOUNDATION technology for automation infrastructures."

At a trade press briefing and reception at the stand on Tuesday, April 21, Van Pelt updated attendees on FOUNDATION technology, including the FOUNDATION for Safety Instrumented Functions (SIF) development project, host testing, diagnostic profile specifications, and plans for a series of end-user demonstrations of its wireless and remote I/O developments. He also highlighted some of the Fieldbus Foundation's EMEA marketing activities and end-user initiatives scheduled for 2009.



Participating members at Interkama 2009 included: APAT, Bürkert, Emerson Process Management, Endress+Hauser, Enotec, Fieldbus International, Hans Turck, Leoni Kerpen, Northwire, Pepperl+Fuchs, Phoenix Contact, R. Stahl, Samson, Siemens, Softing, and Yokogawa.

The Fieldbus Foundation German Marketing Committee also coordinated the organization's stand at ACHEMA 2009, the International Exhibition-Congress on Chemical Engineering, Environmental Protection, and Biotechnology, which took place May 11-15 in Frankfurt am Main, Germany. Participating foundation members included: ABB, APAT, BIS Prozesstechnik, Bürkert, Emerson Process Management, Endress+Hauser, Enotec, Fieldbus International, Hans Turck, Honeywell, MTL Instruments, Northwire, Pepperl+Fuchs, Phoenix Contact, R. Stahl, Samson, Siemens, Softing, and Yokogawa.

For more information about the Fieldbus Foundation German Marketing Committee and its activities, visit the Fieldbus Foundation [Website](#) or [email the committee](#).

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Fieldbus Foundation to host press, end user events in Central and Eastern Europe

The Fieldbus Foundation Central & Eastern Europe Marketing Committee (FFCEEMC) is planning a "Meet the Press" event to coincide with its upcoming committee meeting in Sofia, Bulgaria Aug. 25 and 26. Following the success of a similar event conducted in March in Budapest, Hungary, the FFCEEMC hopes to reach out to more editors and journalists who specialize in process control and automation across the CEE region.



At its regular marketing meeting, the FFCEEMC will discuss the progress of the marketing activity program it is undertaking across the region, and newly scheduled events. The committee of representatives from several leading automation equipment suppliers also will host an informal presentation and dinner for media representatives.

The next Hungarian end-user training seminar will take place Sept. 9 at the MOL Danube Refinery in

Hungary. The event will include five morning session presentations covering an overview of FOUNDATION fieldbus developments; an introduction to the University of Miskolc and its future role in FOUNDATION training; FOUNDATION fieldbus for safety instrumented functions (SIF); an end-user account of operation and maintenance experiences in the MOL Danube refinery; and an introduction to the Claus-6 plant FOUNDATION installation. The afternoon session will consist of a visit to the Claus-6 plant site and control room to observe the interoperability of Honeywell DCS and Emerson Process Management field devices.

All Fieldbus Foundation member companies are invited to become involved in the FFCEEMC and attend the meeting in Sofia, Bulgaria Aug. 25-26. For more information about the meeting, the FFCEEMC, and its seminars and events—including the Hungarian end-user meeting at the MOL Danube Refinery on Sept. 9, 2009—visit the [CEE Web pages](#) or [email the Committee](#).

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Italian Marketing Committee holds first 2009 end-user seminar, plans more

Nearly 60 current and prospective users of FOUNDATION technology from more than 20 area companies gathered recently to attend the first event of the year hosted by Consorzio Fieldbus Foundation—Italia, the Fieldbus Foundation's Italian Marketing Committee. The end-user training seminar was held April 22 at the RSI centre in the heart of the chemical industrial region of Ravenna, Italy.



Following the theme "FOUNDATION fieldbus—State of the art: why and how to switch to the digital world," the study day updated attendees on the technological developments of FOUNDATION technology and its applications and markets in Italy, Europe, and worldwide. Ease of use, installation, commissioning, and maintenance of FOUNDATION systems, and such end-user benefits as increased business intelligence; process integrity; and open, scalable integration were demonstrated and emphasized. Attendees showed particular interest in the presentation about FOUNDATION fieldbus for safety instrumented functions (FF-SIF) and a live demonstration of control in the field and backup using the link active scheduler (LAS).



Another end-user training seminar was held earlier this month at ENI-SAIPEM in Milan, Italy, and one more: "FOUNDATION Fieldbus—Process Automation and Distributed Control," is set for June 11, 2009, at the Hotel Baia di Nora, in Cagliari, Italy.

For more information, [email](#) the Committee or visit the Italian Marketing Committee section of the Fieldbus Foundation [Website](#).

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Diverse activities planned for Asia/Pacific region



The Fieldbus Foundation is offering a series of events in the Asia/Pacific region in 2009 to promote the adoption of FOUNDATION fieldbus. Intended to serve automation end users and other industry stakeholders in these fast-growing industrial markets, these activities include:

In Southeast Asia:

- Mumbai, India, FOUNDATION Fieldbus End User Council Meeting, June 19
- Singapore, FPSO (Offshore) Exhibition, in August
- Mumbai, India, Automation 2009, Sept. 16-19

FOUNDATION Fieldbus End User Seminars are also being planned for Surat, India, Vietnam, The Philippines, Thailand, and Malaysia.

In East Asia:

- Kunming, China, FOUNDATION Fieldbus End User Seminar, July 16
- Tokyo, Japan, FOUNDATION Fieldbus End User Seminar, in September
- Shanghai, China, Miconex 2009, October 20-23
- Beijing, China, FOUNDATION Fieldbus End User Seminar, in November
- Tokyo, Japan, JEMIMA M&C Exhibition, Nov. 18-20

A FOUNDATION Fieldbus End User Seminar is also being planned for Korea.

For more information about Asia/Pacific events, visit the Fieldbus Foundation [Website](#) or call 512-794-8890.

For more information about the June 19 FOUNDATION Fieldbus End User Council Meeting in Mumbai, visit the India page of the Fieldbus Foundation [Website](#) or call 512-794-8890.

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North American end-user seminars target 'achieving operational excellence'

Free FOUNDATION fieldbus educational seminars are being held at various locations in North America in 2009. Based on the theme "Achieving Operational Excellence with FOUNDATION Technology," the events are intended for end users, system integrators, and engineering firms seeking to learn about the economic benefits of the FOUNDATION automation architecture. Topics include:



- Open, scalable integration/segment design and layout;
- Process integrity/SIL and SIF; and
- Business intelligence/maintenance and troubleshooting.

Attendees may earn professional development hours (PDH). Lunch is included.

According to Fieldbus Foundation Marketing Manager Bill Tatum, the 2009 seminar program has attracted standing-room-only attendance at its initial events. In Coatzacoalcos, Mexico, more than 180 participated, while the Baton Rouge, Louisiana, event drew 90 attendees. The two recent seminars in Alberta, Canada (Calgary and Edmonton) attracted more than 160.

"Due to challenging economic conditions, this is an ideal time for plant personnel to obtain training in FOUNDATION fieldbus," continued Tatum. "With the current slowdown, plant workers may be free to receive instruction on new, advanced automation solutions such as fieldbus. Our seminars explain the latest development in FOUNDATION technology, including field diagnostics and host registration, enabling industrial operations to achieve operational excellence through increased efficiency, improved asset management, reduced downtime, and expanded throughput."

Seminars remaining in 2009 include:

- Oct. 15 – Long Beach, CA
- Nov. 3 – Pasadena, TX
- Nov. 5 – Houston, TX

For seminar updates and more information, visit the Fieldbus Foundation [Website](#).

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2009 Fieldbus technology events planned around the world

The Fieldbus Foundation is planning many informational and educational events around the world in the new year. Make plans now to attend an event in your area.

LOCATION	DATE	EVENT and CONTACT INFORMATION
EVENTS IN NORTH AMERICA		
Long Beach, California, USA	Oct. 15, 2009	FOUNDATION Fieldbus End User/EPC Seminar More information to come
Pasadena, Texas, USA	Nov. 3, 2009	FOUNDATION Fieldbus End User/EPC Seminars More information to come
Houston, Texas, USA	Nov. 5, 2009	FOUNDATION Fieldbus End User/EPC Seminars More information to come
Las Vegas, Nevada, USA	Dec. 8-10, 2009	Power Gen 2009 More information to come
EMEA (EUROPE, MIDDLE-EAST, AFRICA) EVENTS		
Cagliari, Italy	June 11, 2009	FOUNDATION Fieldbus Study Day Click here for more information online Click here to email for more information
Le Havre, France	June 2009	FOUNDATION Fieldbus End User/EPC Seminar More information to come
MOL Danube Refinery, Szazhalombatta, Hungary	Sept. 9, 2009	FOUNDATION Fieldbus End User/EPC Seminars Click here for more information online Click here to email for more information
Brands Hatch, Kent, UK	October 2009	FOUNDATION Fieldbus End User/EPC Seminars More information to come
Bahrain	October 2009	Multaqa 2009-FOUNDATION Fieldbus End User Conference More information to come
Frankfurt, Germany	November 2009	FOUNDATION Fieldbus End User/EPC Seminar More information to come
Russia (various locations)	To be determined	FOUNDATION Fieldbus End User/EPC Seminars More information to come
SEMINARS IN SOUTH EAST ASIA		
Singapore	August 2009	FPSO (Offshore) Exhibition More information to come
Thailand	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Malaysia	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Jakarta, Indonesia	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Vietnam	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
The Philippines	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
SEMINARS IN INDIA		
Mumbai, India	June 19, 2009	FOUNDATION Fieldbus End User Council Meeting Click here for more information online Click here to email for more information

Mumbai, India	Sept. 16-19, 2009	Automation 2009 More information to come
Chennai, India	Mid-December 2009	FOUNDATION Fieldbus End User Seminar More information to come
Surat, India	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
SEMINARS IN EAST ASIA		
Kunming, China	July 16, 2009	FOUNDATION Fieldbus End User Seminar More information to come
Tokyo, Japan	September 2009	FOUNDATION Fieldbus End User Seminar More information to come
Shanghai, China	Oct. 20-23, 2009	Miconex 2009 More information to come
Beijing, China	November 2009	FOUNDATION Fieldbus End User Seminar More information to come
Tokyo, Japan	Nov. 18-20, 2009	JEMIMA M&C Exhibition More information to come
Osaka, Japan	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Korea	To be determined	FOUNDATION Fieldbus End User Seminar More information to come

[Click here](#) for a complete list of events.

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TECHNOLOGY NEWS

ARC whitepaper explains FOUNDATION Safety Instrumented Functions (SIF)

Learn more about FOUNDATION Safety Instrumented Functions (SIF) in a whitepaper from the Fieldbus Foundation. Authored by the ARC Advisory Group, a leading research and advisory firm for manufacturing, energy, and supply chain solutions based in Dedham, MA, the document discusses the implications of FOUNDATION SIF (FF-SIF) technology for the global plant safety system market and end users.



FOUNDATION Fieldbus Safety Instrumented Functions Forge the Future of Process Safety explains how successful beta testing of FOUNDATION SIF will mean significant changes in the way automation end users approach Safety Instrumented System (SIS) implementations in process industry plants. In May 2008, the Fieldbus Foundation conducted a successful live demonstration and press day for FOUNDATION SIF technology at Shell Global Solutions in Amsterdam, The Netherlands. At the event, several leading energy companies described their use of FOUNDATION SIF in a wide range of industrial safety system applications.

In the new whitepaper, Larry O'Brien, ARC Advisory Group's research director—process automation, describes how FOUNDATION SIF is a critical part of the FOUNDATION fieldbus automation infrastructure. FOUNDATION fieldbus' industry-proven distributed function blocks and open communications protocol make it an ideal platform for advancing standards-based solutions for plant SIFs. FOUNDATION SIF lets end users reduce TCO (total cost of ownership) by extending fieldbus

benefits into plant safety systems.

"It is very clear that end users want this technology and are striving to include FF-SIF systems in their project specifications," said O'Brien. "Many major end users will probably be specifying FF-SIF systems for their new projects starting in 2011."

The whitepaper reviews the history and development path of FOUNDATION SIF technology, and discusses SIF product registration, conformance to international standards, diagnostics functions and benefits, and future challenges. It also outlines key advantages of FOUNDATION SIF at the safety system layer.

According to O'Brien, "FF-SIF meets the IEC 61508 standard for functional safety systems up to SIL 3, and allows users to build safety systems that adhere to the IEC 61511 standard for functional safety in the process industries. The protocol has already received TÜV approval, and suppliers are going to start submitting their products for TÜV approval over the next year. This means that we should see actual products that are certified by TÜV available commercially some time in 2010."

Download the FOUNDATION SIF whitepaper free from the Fieldbus Foundation [Website](#).

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PRODUCTS & SOLUTIONS

ABB system among first to earn foundation host registration

ABB's System 800xA Extended Automation Product is among the first systems to reach host product registration under the requirements for HIST 61a, attaining that status as of April 8, 2009. The achievement shows ABB's commitment to be a leader in fieldbus technology by offering the latest advancements in hosts, controllers, High Speed Ethernet (HSE), and instrumentation, the company said.



End users now have a choice when considering a partner for new FOUNDATION fieldbus projects, said ABB, and that by choosing ABB, they choose a leader in the project technology of choice, a global leader in automation systems, and a system designed around three key core values: reduced total cost of ownership, increased productivity, and reduced risk and improved safety.

In addition to being among the first suppliers to have a registered host system for FOUNDATION fieldbus in 2009, ABB also marks its 30th anniversary in safety this year. The same controller platform that provides integrated Fieldbus solutions is also a SIL 3 (TÜV) dual/quad configuration offering for integrated safety solutions. One platform, and one system, provides a complete solution integrating conventional process control, FOUNDATION fieldbus, and SIL safety control.

For more information, visit the [ABB Website](#).

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MooreHawke TrunkSafe system guards against single-point failures

TrunkSafe fault-tolerant fieldbus system from MooreHawke, a division of Moore Industries-International Inc., provides a cost-effective, highly reliable strategy for maintaining FOUNDATION fieldbus communications between the DCS and field devices without interruption should a single-point failure, such as an open-circuit or short-circuit, occur.



Delivering a complete fault-tolerant fieldbus physical layer, TrunkSafe consists of two redundant fieldbus dc power conditioners and a specially engineered device coupler to provide a secure fieldbus physical layer. TrunkSafe:

- Maintains all process and diagnostic communications without interruption, even if the network cable is broken or shorted;
- Is compatible with FOUNDATION fieldbus H1 networks and devices without hardware or software changes; and
- Includes advanced physical layer diagnostics that monitor and report open- and short-circuits, dc power status, and segment noise.

The product is the latest addition to the MooreHawke line of fieldbus interface solutions, which includes TrunkGuard Fieldbus device couplers and power supplies designed for general purpose, non-incendive (Class 1, Div.1), Zone 1 and Zone 2 areas; and RouteMaster Fieldbus systems for intrinsically-safe (IS) applications. MooreHawke products are supported through the Moore Industries worldwide network of Interface Solution Centers.

More information is available on the MooreHawke [Website](#).

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Pepperl+Fuchs' ADM now integrated with Emerson's PlantWeb AMS Suite

FieldConnex Advanced Diagnostic Module (ADM) from Pepperl+Fuchs is now fully integrated into Emerson Process Management's PlantWeb AMS Suite. ADM provides real-time monitoring of the FOUNDATION fieldbus physical layer. The integration widens the scope of the PlantWeb digital plant architecture, enabling AMS Suite users to commission fieldbus segments automatically and monitor and troubleshoot the fieldbus physical layer effectively.



"The simplicity of the integration and availability of diagnostic information through the embedded intelligence of ADM is a real value-add for the people responsible for plant start-up and up-keep," said Kristen Barbour, Pepperl+Fuchs' Fieldbus product manager. The new AMS Snap-On Alert Adapter easily integrates the essential fieldbus physical layer status information. These diagnostics alert plant operations of a troubled fieldbus segment in real-time, significantly reducing the time to identify and repair a fieldbus problem MTTR."

ADM's built-in segment monitor displays communication data for the entire segment and for individual devices. Each value is clearly classified as excellent, good, or out-of-spec. Reports, alarm lists, and historical data can be exported for detailed analysis. The Diagnostic Manager even initiates alarm messages with appropriate resolution suggestions.

Within PlantWeb AMS Suite, all information can be displayed on the maintenance workstations. ADM's monitoring capabilities deliver information into the AMS Suite user interface, indicating changes in the fieldbus physical layer before they become critical.

For more information, visit the Pepperl+Fuchs [Website](#)

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New R. Stahl power supply system designed for H1 Fieldbus segments

R. Stahl expands the ISbus range with a new modular Fieldbus Power Supply System that provides up to 28 V and 500 mA for FOUNDATION fieldbus H1 segments and allows for redundant supply.



In the "Boost" mode, a parallel connection of two power supplies enables users to continuously supply the bus with up to 1 A, providing sufficient power reserves even for special fieldbus applications. An integrated "Basic Diagnosis" function monitors each segment for line faults, reporting them via a potential-free relay contact and indicating them with a red "Error" LED. Activation of the integrated switchable fieldbus terminator is indicated by a yellow LED.

Units can be installed on a DIN rail or clicked into place on special bus-carriers. For each bus-carrier, up to eight segments with a standard supply or four segments with a redundant supply may be connected to a host with optional preconfigured system cables. The bus-carrier can be operated with a redundant auxiliary power supply and ensures shielded connection of Fieldbus cables via large-scale terminals that also serve as cable strain relief.

The basic Fieldbus Power Supply unit monitors the bus for cable breaks and short circuits. The advanced version, to be released shortly, also has advanced diagnostic features for physical layer parameters—such as signal level, noise, asymmetries, and jitter—that render costly diagnosis modules unnecessary.

Learn more by visiting the [R. Stahl Website](#).

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Yokogawa's EJX multivariable transmitter performs precise mass flow calculation

Yokogawa's EJX multivariable transmitter precisely measures differential pressure, static pressure, and process temperature, and has dynamic mass flow calculation based on full compensation by these measurement values.

Dynamic flow compensation allows the device to eliminate errors in the differential flow calculations and optimize the flow. Other key features for FOUNDATION fieldbus include:

- Advanced diagnostics—Multi-sensing technology provides an advanced diagnostic function to detect abnormalities such as impulse line blockage or heat trace breakage.
- Multiple LCD variables—Up to 10 process variables and inputs from other devices are cyclically displayed.



The EJX multivariable transmitter has a maximum working pressure up to 32 MPa and is suitable for high-pressure applications.

For more information, visit the [Yokogawa Website](#).

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9005 Mountain Ridge Drive, Bowie Building – Suite 200, Austin, Texas 78759-5316 USA
Tel: 512.794.8890 • Fax: 512.794.8893 • E-mail: info@fieldbus.org
www.fieldbus.org

