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October 2009

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The clear path to operational excellence

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Foundation Briefs

Fieldbus Foundation showcases technology in EDDL booth at ISA Expo 2009



The Fieldbus Foundation was among those showcasing advancements in digital automation and wireless technology at the ISA104 standards committee booth at ISA Expo 2009. The multi-vendor exhibit also explored the benefits of electronic device description language (EDDL) in the maintenance and setup of field devices. The Expo ran Oct. 6-8 in Houston, TX.

The ISA104 standards committee is dedicated to the adoption and promotion of the International Electrotechnical Commission's (IEC) 61804 standard, which specifies a generic electronic device description (EDD) language to describe the properties of automation system components. The committee also works with IEC SC65E Working Group 7 on any enhancements made in IEC 61804.

The committee's ISA Expo booth displayed the latest industrial automation solutions, including hosts, handheld devices, transmitters, drives, valve positioners, and workbenches. The exhibit also included live demonstrations of FOUNDATION fieldbus, HART, and Profibus technology.

In addition, the committee sponsored a series of educational seminars at the event on the end-user benefits of EDDL and the latest developments in ISA 104. Topics covered included:

- Using EDDL to address NAMUR NE105;
- How EDDL enables set-up and maintenance of wireless HART devices;
- ISA104 standards update; and
- End-user benefits of EDDL

Learn more about EDDL technology by visiting the [EDDL Website](#).

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Lab integration project will help technology experts share knowledge



The Fieldbus Foundation and its members worldwide have embarked on a lab integration project that will enable continuous fieldbus technology quality improvement through collaboration. This endeavor will bring together different vendor-specific test labs as a means to share information and continuously enhance the user experience with FOUNDATION fieldbus.

Darie Dreptate, Fieldbus Foundation product marketing team leader, believes the new program will help improve the device integration user experience, based on products complying with the FOUNDATION fieldbus Technical Specifications (FF-007). "The lab integration team is made up of highly skilled engineers who have first-hand experience with the integration of multi-vendor FOUNDATION fieldbus devices within one or more host applications," said Dreptate.

He explained that the first step in the effort will be to define a process for collecting interoperability and usability experiences with the integration of FOUNDATION fieldbus devices and systems from all participants. Project team members will then perform root cause analysis on these issues, and forward their findings to other fieldbus labs in the form of action requests (ARs). Dreptate also indicated the project would define common integration test requirements and test cases for fieldbus instrumentation and host systems. The work will identify standardized procedures for testing the FOUNDATION fieldbus physical layer, function blocks, device definitions, and link active schedulers.

The lab integration team has its procedures in place, and this effort will be a continuing process for team members. Experiences identified as part of the project will be shared through a series of lab integration reports.

Future updates on the lab integration project will be available on the Fieldbus Foundation [Website](#).

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University of Miskolc applies for certified training center accreditation

University of Miskolc, Hungary, will soon begin the rigorous process required to become a training site offering fieldbus instructional courses certified under the FOUNDATION Certified Training Program (FCTP). The program establishes uniform standards for fieldbus educational curricula around the globe, and defines acceptable learning levels for technology students. Successful completion of the accreditation process will allow the University to become the preferred site for Fieldbus Foundation training for the Central & Eastern Europe (CEE) region.

The FCTP is designed to raise the visibility and prestige of institutions offering certified FOUNDATION fieldbus training to a new and exclusive level. Educational facilities that successfully complete the multi-stage certification process are allowed to issue certificates indicating Fieldbus Foundation accreditation of their courses. The Fieldbus Foundation also recognizes their status on its [Website](#).



Educational institutions must follow rigorous procedures to gain certified training site status, and to certify course instructors and curricula. Certified training centers must maintain multiple hosts and devices onsite to demonstrate competence with fieldbus technology. They are audited to ensure course material adheres to specific instructional standards covering fieldbus segment limits; device replacements; commands, icons, menus, and screen designs of software packages; and communication, scheduling, and function block assignments enabling configuration.

Certified instructors are audited to determine if they have achieved specified Fieldbus Foundation training goals. Instructors must demonstrate expertise in areas including human-machine interface (HMI) tools, fieldbus troubleshooting, simple device configuration, and device deployment and functionality across a fieldbus network.

Jürgen George, chairman of the Fieldbus Foundation Central & Eastern Europe Marketing Committee (FFCEEMC), said he is looking forward to having a certified training center in the CEE region. "One of the key objectives of the FFCEEMC is to provide technical training,

support, and information about FOUNDATION technology and its application to users and potential users throughout the CEE region at a local venue and, where possible, in a local language. To have a registered training center in Hungary that can support the region's technical training needs will be a great achievement for all those involved."

Two training centers currently are certified under the FCTP: STC Brielle, The Netherlands, and the Fieldbus Center at Lee College, Baytown, Texas.

For more information about the FCTP and fieldbus training sites, visit the [Fieldbus Foundation Website](#).

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Global News & Events

End-user seminar, MOL refinery site visit draw a crowd

More than 70 participants attended the end-user seminar conducted last month by the Fieldbus Foundation's Hungarian Marketing Committee (FFHMC), with support from the Fieldbus Foundation Central & Eastern European Marketing Committee (FFCEEMC). The groups were extremely pleased with the success of the event, which took place at the MOL Dunai Finomító (MOL Danube Refinery) in Budapest, Hungary, Sept. 9, 2009.

Highlights included presentations in the morning on a variety of topics, including:

- An overview of FOUNDATION fieldbus developments by Marc Van Pelt, vice president, Fieldbus Foundation EMEA Operations;
- An introduction to the University of Miskolc and its future role in FOUNDATION training by Dr. Károly Jónap, University of Miskolc;
- FOUNDATION fieldbus for safety instrumented functions (FFSIF) by György Baradits;
- An end-user account of operation and maintenance experiences in the MOL refinery by Gábor Zsuffa, MOL refinery; and
- An introduction to the Claus-6 plant FOUNDATION installation by Csaba Bocskai, Honeywell.



In the afternoon, participants toured the Claus-6 plant site and control room and viewed the interoperability between the installed Honeywell host system and Emerson Process Management devices.

Thanking the MOL refinery for sharing its application experiences of FOUNDATION technology, Tibor Farkas, chairman, FFHMC, said, "There is a lot of end user experience within Hungary that can be shared with the rest of the CEE region. I'm grateful to Mr. László Galambos and Mr. Zsolt Csattos and their team for opening their doors to other FOUNDATION users and potential users to share their implementation experiences and to promote valuable discussions."

Members of the FFHMC include: Emerson Process Management, Endress+Hauser, Honeywell, Invensys/EL&ME, MTL Relcom/Controrg, Pepperl+Fuchs, Siemens, R. Stahl, and Yokogawa.

For more information, visit the [CEE section of the Fieldbus Foundation Website](#).

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UK marketing committee schedules half-day supplier training sessions



The Fieldbus Foundation UK marketing committee (FFUKMC) will hold a series of training events across the UK to meet the ongoing need for FOUNDATION fieldbus education within the Fieldbus Foundation's own member companies.

The half-day events will target employees within the supplier community and offer a basic overview of FOUNDATION fieldbus technology, its implementation, applications, and overall plant integration. The training is intended in particular for sales representatives and engineering staff who interact with users or potential users of FOUNDATION technology and their companies' fieldbus systems, devices, or interfaces.

Each event costs £10 per person and includes lunch. The agenda will cover:

- An introduction to FOUNDATION fieldbus
- Making FOUNDATION fieldbus work
- Making FOUNDATION fieldbus reliable
- Asset management
- Business intelligence
- Future developments

John Hartley, chairman of the FFUKMC, expressed enthusiasm about the new training events. "It's vital that companies do all that they can to support their sales and engineering staff," said Hartley. "The greater the knowledge employees have about fieldbus products and the technology behind them, the more effectively they can perform in front of current and prospective customers. Workforces can be very fluid with new staff coming through on a regular basis—employee training must be a constant consideration for management. With courses scheduled across the UK, all interested parties have an opportunity to attend."

The schedule of supplier community training events includes:

- North Region at Endress+Hauser, Manchester, Dec. 1, 2009;
- Scotland at Honeywell, Newhouse, Feb. 2, 2010;
- South Region at Emerson Process Management, Slough, date to be determined;
- Midlands Region at Stahl, Coventry, date to be determined.

For more information about the training sessions, or to make a reservation, contact Charlotte Gear by telephone at +44 (0)161 286 5000 or by [email](#).

For more information about the Fieldbus Foundation UK marketing committee and its activities throughout the UK, visit the UK section of the Fieldbus Foundation [Website](#) or [email the committee](#).

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"Fieldbus Goes Live" road show series continues with two more venues

"Fieldbus Goes Live," the end-user road show series from the Fieldbus Foundation UK Marketing Committee (FFUKMC), continued with two more venues, one held at the Brands Hatch racing circuit, Kent, on Tuesday, Oct. 13 and another at the Catch training centre, Humberside, on Thursday, Oct. 15. More than 30 attended each of the events.

Both road shows followed the format of previous events, which have been held at such key sporting locations across the UK as Wembley stadium, Madejski stadium, City of Manchester stadium, and Riverside stadium. The shows began at 9:30 am with registration and a snack breakfast and ran until 4:00 pm. They included a complimentary lunch and access to the facilities, including track-side and the pit at Brands Hatch.



All "Fieldbus Goes Live" road shows are open to prospective end users, systems integrators, contractors, designers, and anyone interested in the implementation of FOUNDATION fieldbus technology. Topics covered include:

- Introduction to FOUNDATION technology—an overview, including hazardous area options;
- Process integrity and reliability—achieved through diagnostics and redundancy;
- Business intelligence—demonstrating improved plant performance;
- Open scalable integration—linking H1, HSE and other networks; and
- Practical systems implementation—demonstration of building, maintaining, and modifying working fieldbus segments.

At the two most recent events, host systems were provided by ABB, Emerson Process Management, Honeywell, and Yokogawa, with devices from BEKA, Endress+Hauser, Smar, Krohne, Invensys, and VEGA, and physical layer interfaces from MTL, MooreHawke, Pennert+Fuchs, R. Stahl, and Turck.

John Hartley, chairman of the Fieldbus Foundation UK Marketing Committee, said the committee was pleased to be able to add Brands Hatch to the list of UK seminar venues. "The UK marketing committee enjoys hosting its Fieldbus Foundation end-user events at some of the major sports venues across the UK," said Hartley. "We know that the attendees appreciate the combination of informative presentations and practical demonstrations delivered by fieldbus experts in a unique venue—it ensures a beneficial and memorable day for all involved!"

For more information about FFUKMC activities, visit the UK events page on the Fieldbus Foundation [Website](#).

Or for more information about activities in the UK and Ireland region, [email the FFUKMC](#).

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Dutch Marketing Committee marks 10th anniversary with user seminar

A special end-user seminar will mark the 10th anniversary of the Fieldbus Foundation Dutch Marketing Committee and its activities in The Netherlands. The seminar and celebration will take place Nov. 12, 2009 at STC Brielle, near Rotterdam, The Netherlands, from 3:30 to 8:00 pm. The theme of the event will be "Facts & Opinions of FOUNDATION Fieldbus—Usage and Maintenance."

The comprehensive agenda will feature a review of Netherlands fieldbus activities over the last decade and presentations by prominent users or specifiers of FOUNDATION technology across the region. Speakers will include Mark Dijkstra, TW; Jos Berkien, AKZO; and Paul Bitray, Shin-etsu. Each session will focus on a particular aspect of the

technology, including operations, engineering, and maintenance.

Roundtable discussion forums—moderated by industry experts Willem van der Bijl, Rob Hulsebosch, and Bareld Bruining—will follow the sessions. Attendees will also enjoy a complimentary buffet, a keynote address, and additional plenary discussions in the evening.

Rob van der Zwan, chairman of the Dutch Marketing Committee, expressed confidence that the event will be a great success. "Not only will the timing of the event fit in well with a busy engineer's daily schedule," said van der Zwan, "but we know the presentation topics and speakers will address the critical issues facing users and potential users of FOUNDATION technology. The chance to discuss real applications experiences and live demonstrations in a roundtable forum with industry experts is a valuable opportunity that shouldn't be missed."

For more information, [email the Dutch Marketing Committee](#).

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North American seminars help end users 'achieve operational excellence'

The Fieldbus Foundation is offering free FOUNDATION fieldbus educational seminars at various North American locations in 2009. The events, based on the theme "Achieving Operational Excellence with FOUNDATION Technology," 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.

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. Two seminars in Alberta, Canada (Calgary and Edmonton), attracted more than 160.



Seminars remaining in 2009 include:

- Nov. 3 – Pasadena, TX
- Nov. 4 – Houston, TX

Seminar updates and more information are available on the [Fieldbus Foundation Website](#).

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Fieldbus Foundation plans educational events worldwide

The Fieldbus Foundation is planning many informational and educational events around the world in the remainder of 2009. Make plans now to attend an event in your area.

LOCATION	DATE	EVENT and CONTACT INFORMATION
EVENTS IN NORTH AMERICA		
Pasadena, Texas, USA	Nov. 3, 2009	FOUNDATION Fieldbus End User/EPC Seminars Click her for more information
Houston, Texas, USA	Nov. 4, 2009	FOUNDATION Fieldbus End User/EPC Seminar Click here for more information
EMEA (EUROPE, MIDDLE-EAST, AFRICA) EVENTS		
Al Khobar, Saudi Arabia	Oct. 25, 2009	ISA/Fieldbus Foundation Update Seminar & Dinner Click here for more information
Doha, Qatar	Oct. 26, 2009	ISA/Fieldbus Foundation Update Seminar & Dinner Click here for more information
Muscat, Oman	Oct. 27, 2009	Fieldbus Foundation Update Seminar & Dinner Click here for more information
Abu Dhabi, UAE	Oct. 28, 2009	Fieldbus Foundation Update Seminar & Dinner Click here for more information
Le Havre, France	November 2009	FOUNDATION Fieldbus Seminar and Demonstration More information to come
Brielle, Netherlands	Nov. 12, 2009	10th Anniversary End User/EPC Seminar & Buffet Click here for more information
Frankfurt, Germany	November 2009	FOUNDATION Fieldbus End User/EPC Seminar More information to come
Manchester, UK	Dec. 1, 2009	North Region Supplier Community Training Click here for more information
Doha, Qatar	Dec. 15-16, 2009	Multaqa 2009 5th Middle East End-User Council Conference Click here for more information
SEMINARS IN SOUTH EAST ASIA		
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		
Chennai, India	Oct. 30, 2009	FOUNDATION Fieldbus End User Seminar More information to come
Surat, India	Q2 2010	ISA / FOUNDATION Fieldbus Event More information to come
Mumbai, India	Sept. 16-19, 2010	Automation 2010 More information to come
SEMINARS IN EAST ASIA		
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

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

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Technology News

New whitepaper outlines advancements in field diagnostics



The latest advancements in field diagnostics technology used by FOUNDATION fieldbus is the subject of a new Fieldbus Foundation whitepaper. Author Stephen Mitschke, the foundation's manager-fieldbus products, provides a comprehensive look at how field diagnostics can help process plants practice more preventive and less reactive maintenance.

As approximately half the work in most industrial organizations is preventive maintenance, the potential for cost savings through device diagnostics data is significant. Since May 2006, the Fieldbus Foundation has been collaborating with NAMUR, an international process industry end-user association based in Germany, on fieldbus performance enhancements such as device diagnostics. Both groups determined that the

user community requires further clarification and guidance in this area.

Key to the foundation's liaison with NAMUR was the establishment of a dedicated working group to investigate standard end-user work processes for employing field device diagnostics. This initiative was critical to ensuring FOUNDATION instruments are consistent with the NE107 guideline requiring that field devices deliver extensive diagnostics, which help ensure optimal plant efficiencies are achieved.

The Fieldbus Foundation/NAMUR working group analyzed specific requirements for device diagnostics in developing a field diagnostics profile specification. These included:

- Common view of instrument-specific diagnostics
- Common configuration environment
- Extensibility
- Leverage of existing “push” technologies (such as alerts and alarms)
- Flexible configuration to meet user applications
- Simulation for FAT/SAT activities
- Ease of understanding and implementation
- Adoption by system and instrument vendors

Using the power of FOUNDATION fieldbus, and considering the NAMUR NE107 recommendations, the Fieldbus Foundation developed a profiles specification enhancing the organization and integration of device diagnostics within FOUNDATION fieldbus systems. The new diagnostic profile includes a standard and open interface for reporting all device alarm conditions, and provides a means of categorizing alert conditions by severity. The technology facilitates routing of alerts to appropriate consoles based on user-selectable severity categories. In addition, it recommends corrective actions, provides detailed help, and offers an indication of the overall health of the device.

The FOUNDATION fieldbus Diagnostics Profile Specification (FF-912) was defined to allow any Electronic Device Description (EDD)-based system to access and configure the diagnostics in fieldbus devices. The field diagnostics profile makes no changes to the existing FOUNDATION fieldbus stack specifications. However, it does introduce a new field diagnostic alert type. System updates will provide more extensive integration capabilities (such as Wizards for configuration) that will enhance diagnostics performance.

Most importantly, field diagnostics technology according to the NE107 recommendation offers a robust solution for implementing role-based diagnostics, meaning the right information is sent to the appropriate people—when they need it—without flooding others with alarms.

Download a free copy of the Fieldbus Diagnostics whitepaper from the [Fieldbus Foundation Website](#).

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End User Information

Emerson automation systems give Bulgarian plant ‘competitive advantage’



A Bulgarian pharmaceutical company’s application of Emerson Process Management PlantWeb digital architecture is improving performance of a second fermentation area at its Peshtera plant.

Biovet, one of Bulgaria’s largest pharmaceutical companies and a specialist manufacturer of antibiotic feed additives and pharmaceuticals for farm animals and pets, has just completed the project. Explains Ivan Batakliiev, Biovet executive director, “Our objective is to develop high added value products in the future, based on active pharmaceutical products. We are planning to build synthesis departments and will utilize Emerson automation systems because they give us a competitive advantage.”

PlantWeb, with its DeltaV digital automation system, has significantly increased stability and reliability for the Biovet installation, improving operational performance of the fermentation process by 30%. Centralized control has saved 10% in human resource costs.

The installation at production unit three uses seven DeltaV workstations communicating with 450 field instruments via the FOUNDATION fieldbus communications protocol. AMS Suite: Intelligent Device Manager software embedded in the DeltaV system accesses the predictive intelligence of the field devices, allowing performance of configuration, calibration, and diagnostic tests. The rich, predictive diagnostics in the field instruments and valves improve operations by allowing easier configuration, extending calibration intervals, and reducing required maintenance. In addition, management of process and instrument health enables better ongoing control that has resulted in improved product quality and consistency.

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

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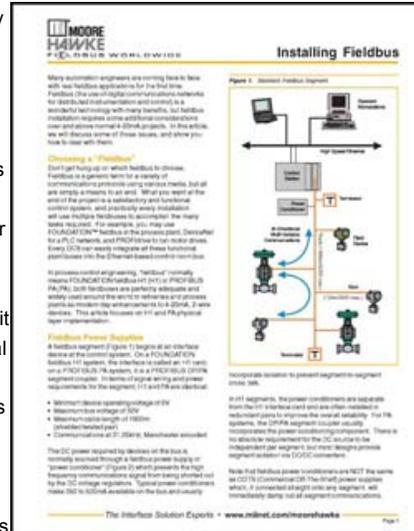
Products & Solutions

Moore Industries, MooreHawke offer Fieldbus whitepapers, more

An extensive selection of fieldbus and instrumentation whitepapers and articles is offered by Moore Industries and its fieldbus division MooreHawke on the company Website.

Titles among the dozens of online resource materials provided include:

- **Installing Fieldbus in Real Life Applications**—For the first time, automation engineers are coming face-to-face with real fieldbus applications. Although Fieldbus is a wonderful technology with many benefits, its installation requires considerations over and above typical 4-20 mA projects.
- **Intrinsically-Safe Fieldbus for Hydrocarbon Processing Plants**—For about 30 years, it has been a given within the oil and gas industry that intrinsic safety (IS) is the natural technique for explosion-proof protection of electronic instruments. Fieldbus users now want complex processing and digital communications to and from many devices in intrinsically safe applications. The key is delivering enough power to a large number of field devices.
- **Implementing FOUNDATION Fieldbus Networks in Hazardous Areas**—Many engineers today find themselves questioning which bus technology to implement in their facilities. As if that topic isn't difficult enough to resolve, the subject is further complicated by implementing your chosen bus in a hazardous area.



For more information and a complete listing of articles and whitepapers, visit the Moore Industries/MooreHawke Website.

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MTL evaluation tool helps users take Fieldbus networks into hazardous areas



A simple, quick, and efficient evaluation tool from MTL is helping users take FOUNDATION fieldbus into hazardous areas. The newly-designed, Web-based graphical interface provides a visual means of determining the equipment required and optimal strategy to take in Fieldbus deployment. End users heavily invested in design, installation, and maintenance of instrumentation based on their selected hazardous area protection methods are encouraged to use the same methods or site standards for the Fieldbus network as they use for conventional instrumentation.

Using the new tool, users can view a typical Fieldbus network and interact with the products to obtain further details. The information can then be used to evaluate the two approaches when installing instrumentation in hazardous areas: energy limited trunk or high energy trunk.

Examples of both topologies included with datasheets and case studies are easily accessible from the MTL Website.

For more information, visit the MTL Website.

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Northwire cables promote fast, simple cabinet wiring



Northwire's DataCell FOUNDATION fieldbus M-EZ (Marshal-EZ) cables enable fast, simple installation into marshaling cabinets without shrink tubing. They are engineered with up to

24 individually foil-shielded pairs that have an extruded PVC binder over each pair—all contained within a single cable.

Easy to strip and install, the cables offer superior ground system integrity and eliminate the potential for cross continuity between shields. FF-844 certified DataCell FOUNDATION fieldbus M-EZ cables are ITC /PLTC-rated for exposed-run applications. They pass crush and impact tests for metal-clad cable and allow users to do without the conduit. The line includes arctic-rated and marine shipboard-listed versions, suitable for temperatures to -60 C. CSA, ABCD armored cables are also offered.

Options include single- or multi-paired bus cables; individually or overall foil-shielded pairs with drain; overall tinned copper braid for low-frequency noise immunity; 16 AWG for longer runs, and 18 AWG in single-shielded, twisted-pair spur cables or multi-pair cable; and several jacket and inner-conductor colors with optional ground wire. Characteristic impedance Z₀ is 100Ω ±10Ω at 31.25 kHz.

Other versions are available off-the-shelf in bulk quantities. Contact Northwire for information and product samples at 1-715-294-2121.

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

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Phoenix Contact seminars cover critical process industry topics

End-users are invited to attend 2009 Fieldbus Technology Seminars sponsored by Phoenix Contact and its local distributors later this month. The informative training sessions are designed to help users conquer challenges facing the process industry and succeed in today's competitive global environment.



Morning and afternoon half-day sessions are scheduled for Houston, TX on Oct. 27; LaPorte, TX on Oct. 28; and Gonzales, LA on Oct. 29. Each session includes three 50-min. seminars on topics important to the process industry, including wireless technology, FOUNDATION fieldbus, surge voltage protection, and intrinsic safety.

The free events will be conducted by Phoenix Contact's North American product specialists, include lunch, and will provide 3 of the 15 professional development hour (PDH) credits required by Texas and Louisiana annually for professional engineer license renewal.

Space is limited! Register today on the Phoenix Contact [Website](#).

For more information, contact Benita Hester by telephone at 800-888-7388, ext. 5940, or by [email](#).

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Rockwell finalizes plans for Automation Fair, Process Solutions User Group



Rockwell Automation's Automation Fair and annual Process Solutions User Group are set for the Anaheim Convention Center in Anaheim, CA, Nov. 9-12.

At the Process Solutions User Group on Monday and Tuesday, Nov. 9 and 10, attendees will be able to network, learn, and help shape today's technical road map by voting to prioritize development needs for the PlantPAx system. The vote is a voice to ensure Rockwell continues to meet customer needs and help customers innovate. Attendees will also hear from industry experts, network with peers, and listen to customer stories about applications or about how problems were solved with Rockwell technology.

Automation Fair on Wednesday and Thursday, Nov. 11 and 12 will offer labs, technical sessions, and forums dedicated to the concerns of the process industries. Attendees will also have the opportunity to stop by the show floor to see the process booth where they can observe demos, participate in discussions, see the PlantPAx System, and speak with industry experts.

For more information or to register, visit the Rockwell Automation [Website](#).

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Yokogawa releases Plant Resource Manager with PST Scheduler

Plant Resource Manager (PRM) R3.04 with PST Scheduler is now available from Yokogawa Electric Corp. A key feature of the new release, PST Scheduler provides the world's first partial stroke test (PST) solution for multi-vendor emergency shutdown (ESD) valves.

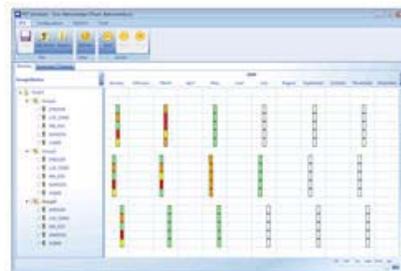
PST Scheduler collectively manages and performs PST to determine whether ESD valves are in good working condition and can respond properly in an emergency shutdown situation. PRM with PST Scheduler offers an integrated plant safety solution combined with Yokogawa's ProSafe-RS Safety Instrumented System to keep plants safe and efficient.

PST Scheduler was developed through the Vigilant Integration Partners (VIP) Initiative by Yokogawa and four world-leading valve suppliers: Dresser-Masoneilan, Flowserve, Metso, and Samson AG. The VIP initiative ensures the interoperability of the ESD valves manufactured by these companies.

PST Scheduler features include:

- Efficient PST scheduling and implementation
- Collective multi-vendor valve PST management
- Easy visualization of schedule and status of PST

For more information, contact your local Yokogawa representative or visit the Yokogawa [website](#).



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