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February 2009

Fieldbus Facts Online is brought to you by the Fieldbus Foundation, an international, not-for-profit corporation consisting of automation industry leaders dedicated to providing the "Freedom to Choose" and the "Power to Integrate."

Featured This Month...



**FOUNDATION Fieldbus ...
we put the pieces in place**



Endress+Hauser 
People for Process Automation

In This Issue...

FOUNDATION BRIEFS

[JGC Corp. executive will keynote 2009 General Assembly](#)
[Wireless Cooperation Team moves toward common network interface](#)

GLOBAL NEWS & EVENTS

['Achieving Operational Excellence' theme of upcoming Fieldbus seminars](#)
[More than 200 attend FOUNDATION seminars in Middle East](#)
[French seminar focuses on Fieldbus network interoperability](#)
[French Marketing Committee official addresses Algerian engineering group](#)
[German Marketing Committee to participate in PMA Europe 2009](#)
[Foundation's Tatum to speak at ABB Automation & Power World](#)
[STC Brielle conducting Fieldbus workshops in The Netherlands](#)
[2009 Fieldbus educational events planned around the world](#)

TECHNOLOGY NEWS

[Free download: ARC whitepaper explains FOUNDATION SIF technology](#)

Sponsors



PRODUCTS & SOLUTIONS

[Endress+Hauser enables smarter pressure measurement](#)
[Moore Industries, MooreHawke offer Fieldbus whitepapers, more](#)
[MTL adds powerful new features to Fieldbus diagnostic module](#)
[Northwire Fieldbus cable designed for rugged industrial networks](#)
[Phoenix Contact physical layer solution takes modular approach](#)
[R. Stahl provides discrete I/O signals for H1 Fieldbus networks](#)
[Softing device protocol stack features up-to-date communication technology](#)
[Trine North hires new instructor for FOUNDATION training classes](#)

FOUNDATION BRIEFS

JGC Corp. executive will keynote 2009 General Assembly

JGC Corp. executive Hideaki Miura will deliver the keynote address at the Fieldbus Foundation's 2009 General Assembly. The event, to be held at the Pan Pacific Hotel in Yokohama, Japan, March 4-5, is expected to draw leading FOUNDATION fieldbus suppliers, end users, and industry participants from around the world. The gathering is open to Fieldbus Foundation members and non-members.

The General Assembly will provide an overview of Fieldbus Foundation developments across the globe. It will include presentations by fieldbus technology experts that focus on process integrity, open scalable integration, and business intelligence. The program will also feature talks by major end users who have installed FOUNDATION fieldbus in their industrial operations.

According to Fieldbus Foundation President and CEO Rich Timoney, the keynote presentation by Hideaki Miura, senior executive officer and general manager for JGC Corp.'s, engineering division, will offer valuable insights into the adoption of FOUNDATION technology by leading automation end users, engineering firms, and system integrators. Said Timoney, "JGC Corp. has implemented a number of major FOUNDATION fieldbus projects in the process industries, and has extensive experience with the technology. Mr. Miura will provide an authoritative perspective on the growth of our market."

He continued, "FOUNDATION technology has gained significant market share over the last several years and continues to grow at a very rapid pace. In these difficult economic times, leading-edge technologies such as FOUNDATION fieldbus provide a platform for reductions in both CapEx and OpEx. Reductions in time to calibrate, commission, and start up are essential during the build-phase of projects. Improved asset utilization, reduction in maintenance costs, and tighter control translate into improved operating performance and enhanced competitiveness."

The 2009 General Assembly agenda will also offer FOUNDATION technology presentations by leading fieldbus end users, including: John Rezabek, ISP Corp.; Jasbir Singh, Essar Refinery Ltd.; Takuo Suzuki, Mitsubishi Chemical Engineering; and Bindert Douma, Shell Global Solutions. In addition, Fieldbus Foundation staff members will update current FOUNDATION technology developments such as wireless implementation, safety solutions, field device integration, Electronic Device Description Language (EDDL), and field diagnostics.



The Fieldbus Foundation's 2009 General Assembly will take place March 4-5 at the Pan Pacific Hotel in Yokohama, Japan.



For more information on the 2009 General Assembly, visit the [Fieldbus Foundation Website](#).

[Return to Top](#)

Wireless Cooperation Team moves toward common network interface

The Wireless Cooperation Team (WCT) has made significant strides in the past year toward the development of a common network interface intended to make it easier for automation end-users to take advantage of evolving wireless technologies, the Fieldbus Foundation announced recently.

One year after its formation, WCT has reached a number of milestones toward the development of an interface specification and compliance guidelines to integrate a universally accepted wireless solution into the HART, FOUNDATION fieldbus, Profibus, and Profinet communications networks. In 2008, these strides included establishment of requirements and architecture for FOUNDATION fieldbus, Profibus, and Profinet.



The collaborative effort is sponsored by the Fieldbus Foundation, HART Communication Foundation, and Profibus Nutzerorganisation e.V. (PNO), and is intended to facilitate the acceptance of wireless technology in the manufacturing and process industries worldwide. The three sponsoring organizations are represented by team members from leading industry suppliers, including Emerson Process Management, Honeywell, Siemens, ABB, Endress+Hauser, Pepperl+Fuchs, and Festo. The groups have been collaborating on Electronic Device Description Language (EDDL) technology since 2003 and formed the WCT in September 2007.

"The Project Team has made good progress towards the ultimate goal of a specification for a common interface to a wireless gateway with the output supporting HART, FOUNDATION fieldbus, Profibus, and Profinet communications technologies," said Martin Zielinski, chairman of the WCT project steering committee. "We are on track to validate a new specification and compliance guidelines in 2009."

Read future updates about WCT activities on the [Fieldbus Foundation Website](#).

[Return to Top](#)

GLOBAL NEWS & EVENTS

'Achieving Operational Excellence' theme of upcoming Fieldbus seminars

"Achieving Operational Excellence" will be the theme of several free FOUNDATION fieldbus educational seminars set for various locations throughout North America in 2009. The events, conducted by the Fieldbus Foundation, are intended for end users, system integrators, and engineering firms who want to learn about the economic benefits of the FOUNDATION automation architecture. Topics to be covered include:

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



Attendees will earn professional development hours (PDH). Registration fee includes lunch.

Preliminary 2009 seminar dates include:

- March 19: Baton Rouge, LA
- April 21: Calgary, AB, Canada
- April 23: Edmonton, AB, Canada
- Nov. 3: Pasadena, TX
- Nov. 5: Houston, TX

Additional dates and locations will be confirmed in the near future. For updates, see the [Fieldbus Foundation Website](#).

[Return to Top](#)

More than 200 attend FOUNDATION seminars in Middle East

More than 200 end users and engineering contractors took part in recent FOUNDATION seminars in the Middle East. The marketing initiatives, held from December 15-17, 2008 across the region, were sponsored by the Fieldbus Foundation Middle East Marketing Committee (FFMEMC), which expressed pleasure at the success of the efforts.



Evening FOUNDATION fieldbus presentation and dinner took place at the Crowne Plaza Hotel, Abu Dhabi.

On Dec. 15, 2008, the FFMEMC, in cooperation with ISA, hosted an evening presentation and dinner at the Crowne Plaza Hotel, Abu Dhabi. On the agenda were updates on local ISA activities and on the technical developments and progress of FOUNDATION fieldbus, including wireless.



FOUNDATION fieldbus engineering seminar was conducted at the Marriott Doha, Qatar.

The FFMEMC also hosted two end-user events, one Dec. 16 at the Marriott Doha, Qatar, and another Dec. 17 at the Hilton Resort, Kuwait. Each included morning presentations followed by a complimentary lunch. The seminars followed the theme "FOUNDATION Fieldbus—Engineering the Future," and included an update of the Fieldbus Foundation's technical developments and presentations on the implementation of FOUNDATION technology from engineering contractor and end-user perspectives. In addition, a Q&A session with presenters and FOUNDATION experts gave attendees the opportunity to share application experiences and gain practical insights into the implementation of FOUNDATION fieldbus within their own processes.



Attendees at the Hilton Resort, Kuwait learn about FOUNDATION fieldbus engineering.

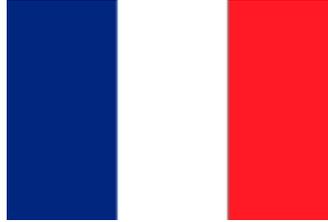
Said Mouritz Jankowitz, a member of the FFMEMC, "The committee has found a formula that seems to work by dovetailing easily into the engineer's busy working day. Attendees appreciate the focused approach of the technical updates and the opportunity to continue discussions over a meal with their fellow delegates and presenters. The FFMEMC will continue its marketing program throughout 2009 and will publish the new schedule in due course."

Learn more about future FFMEMC events on the [Fieldbus Foundation Website](#).

[Return to Top](#)

French seminar focuses on Fieldbus network interoperability

The Fieldbus Foundation French Marketing Committee (FFFMC) joined French industry experts late last year to participate in a study and exchange day organized by EXERA, the French association of end users of measurement, control, and automation equipment. More than 40 representatives from 25 end-user companies, suppliers, and associations attended the event held in Paris Nov. 18. The focus of the day was “Fieldbus Networks: Interoperability and Interchangeability of Digital Instrumentation—Commercial Justification or Real Technological Opportunity?”



In response to a membership request, EXERA evaluated the interoperability, interchangeability, and openness of a FOUNDATION fieldbus system installed at IRA and a Profibus DP/PA system installed at Agilicom. The study sought to verify the status of the technology offered by host system and device manufacturers. The evaluations generated a wealth of data about the level of interoperability and interchangeability of devices from multiple suppliers, an understanding of the technical features and functionalities offered by different manufacturers and fieldbus technologies, and a look at the impact of these technologies on the control and instrumentation function.

With its focus on end-user installations and the technical evaluation of the two fieldbus trials, the program allowed end users to compare their experiences and suppliers to present their solutions and receive first-hand feedback from users of their devices and technologies. Presenters included Christian Dossset, EXERA; Georges Couval, Arkema; Etienne Bouet, Lubrizol; Nicolas Bernat, Air Liquide; Hervé Scholasch, IRA; Claude Pelletier, EXERA; Claudie Damade, FFFMC; and Jean-Yves Bois, Agilicom.

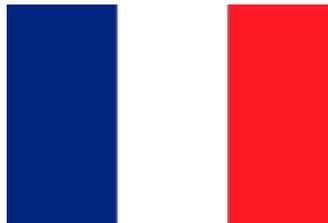
FFFMC's Claudie Damade expressed delight with the format of the event. “It was a mutually beneficial day for end users and members of EXERA, as well as for suppliers of fieldbus technology and systems,” she said. “The presentations were factual and addressed the technical needs and experiences of users, as well as an honest account of how fieldbus technology suppliers were responding to these needs.”

For more about future FFFMC events, visit the [Fieldbus Foundation Website](#).

[Return to Top](#)

French Marketing Committee official addresses Algerian engineering group

Fieldbus Foundation French Marketing Committee (FFFMC) Vice-Chairman Félix Chaïb took the opportunity to speak to Algerian engineers about the benefits of FOUNDATION Fieldbus recently. The FFFMC official was honored with an invitation from Sonatrach Algeria, a state owned oil and gas company, to participate in the recent 8ème Journées Scientifiques et Techniques (JST8) du Secteur de l'Energie et des Mines (8th scientific and technical days for the Algerian Energy and Mines Sector), which took place at the Hilton Hotel, Algiers, Nov. 18-19, 2008.



JST8 is a key event at which engineers throughout the Algerian energy and mines sector share technological updates. In particular, it is a gathering at which Sonatrach Algeria engineers are introduced to new technologies that may be used to establish the company's technical guidelines for the future.

Chaïb addressed more than 40 engineers, speaking on, "FOUNDATION Fieldbus—An Architecture Dedicated to Process Control." A question-and-answer session moderated by Rabeh Touleb and Youcef Djalti followed the presentation.

Said Marc Van Pelt, vice-president Fieldbus Foundation EMEA operations, "It was a great honor to be invited to take part in the JST8 event. It is a privilege to address such a high-caliber audience and to introduce them to the benefits that FOUNDATION technology can bring a process in terms of unifying process integrity, business intelligence, and open, scalable integration as part of a plant-wide solution. We look forward to future cooperation."

To learn more about future FFFMC events, visit the [Fieldbus Foundation Website](#).

[Return to Top](#)

German Marketing Committee to participate in PMA Europe 2009



The Fieldbus Foundation, represented by its German Marketing Committee, is one of eight industry association sponsors of the upcoming 5th Process Management Academy (PMA) Europe 2009. Several Fieldbus Foundation member companies are also corporate sponsors of the event and will contribute a number of speakers for the three-day program, scheduled for Mar. 2-4 at the Maritim Airport Hotel, Düsseldorf, Germany.

Organized by ARC Advisory Group, PMA Europe 2009 is an educational forum for process industry professionals to learn about the effective management and optimization of production plants. More than 300 are expected to attend some 40 presentations and seminars on topics ranging from operational excellence, safety and security, and asset optimization to product lifecycle management and engineering, and industrial communication. The program also includes keynote speeches by industrial end users, panel discussions, and round table sessions.

Thomas Kasten, vice chairman of the Fieldbus Foundation German Marketing Committee, will represent the Fieldbus Foundation, presenting a paper Mar. 4 that looks at FOUNDATION fieldbus for safety instrumented functions (SIF) and how safety-related signals across the fieldbus replace the need for installing a conventional, parallel network.

An accompanying exhibition will give PMA participants the opportunity to discuss products, innovations, and solutions from sponsoring companies and industry organizations. The Fieldbus Foundation stand will offer the latest information on FOUNDATION technology; various Fieldbus Foundation member company exhibits will afford the opportunity for practical hands-on experience.

For more information about FFGMC, [email the German Marketing Committee](#).

For more on PMA Europe 2009, visit the event [Website](#).

For more information about ARC Advisory Group, visit the firm's [Website](#).

[Return to Top](#)

Foundation's Tatum to speak at ABB Automation & Power World

Fieldbus Foundation Marketing Manager Bill Tatum is among those presenting at the upcoming ABB Automation & Power World. The three-day conference, which takes place Mar. 24-26, 2009 at the Marriott World Center in Orlando, FL, merges ABB's Automation World and Power World customer gatherings into one comprehensive users conference and exhibition.



Tatum will conduct a workshop, "Fieldbus Foundation: Beyond the Industry Standard," which is among more than 500 hours of training sessions at the event directed at automation power customers. Tatum's presentation provides an overview of what FOUNDATION fieldbus is and what it can do for an enterprise, and provides an understanding of where the technology is headed regarding advanced NAMUR NE107 diagnostics, safety instrumented functions (SIF), wireless technology, and remote I/O. Anyone working with FOUNDATION fieldbus or budgeting for fieldbus-related projects can benefit from attending this workshop.

A 70,000-sq-ft exhibit hall featuring ABB's comprehensive product, service, and technology offerings will also be available for industry and utility customers. The company's largest customer event is designed to help automation, robotics, industrial power, and utility power users address key market issues, such as the need to improve efficiency in the face of soaring energy costs, and the productivity, reliability, and safety gains achieved from process and electrical integration.

To learn more or to register for the event, visit the [ABB Automation & Power World Website](#).

[Return to Top](#)

STC Brielle conducting Fieldbus workshops in The Netherlands

February fieldbus technology workshops conducted by STC Brielle are underway. "Introduction to FOUNDATION Fieldbus" took place on Tuesday, Feb. 17; the "Advanced Principles of FOUNDATION Fieldbus" course is being offered Feb. 18-20. STC Brielle is a Fieldbus Foundation-certified training center operating in Brielle, The Netherlands, close to the Rotterdam-Europoort industrial areas.



"Introduction to FOUNDATION Fieldbus" is a vendor-neutral course intended for developers, end users, marketing professionals, applications engineers, system integrators, and others interested in a fundamental knowledge of FOUNDATION technology. The curriculum familiarizes students with basic concepts and new terminology related to the FOUNDATION-integrated architecture. It helps them understand the key strategies for wiring and installation of a fieldbus network. Special emphasis is placed on design issues such as power requirements, device types, and topologies. The introductory course assumes little or no prior knowledge of FOUNDATION technology, but students should already be familiar with process control and the 4-20mA technology found in most installations.

"Advanced Principles of FOUNDATION Fieldbus" is also a vendor-neutral course. It is directed at manufacturers and developers of fieldbus hardware and software and is best suited for development engineers, test engineers, and those seeking to understand the inner workings of a fieldbus device. "Introduction to FOUNDATION Fieldbus" is a prerequisite to this advanced class. Students should be familiar with the basic terminology of FOUNDATION technology and have a general understanding of its communications protocol, function block execution, linkages, and DDs.

For more information on these courses, review the training brochure on the [Fieldbus Foundation](#)

[Website.](#)

For more information on upcoming STC Brielle workshops or to register for a class, [complete and submit a training registration form.](#)

[Return to Top](#)

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		
Baton Rouge, Louisiana, USA	March 19, 2009	FOUNDATION Fieldbus End User/EPC Seminars More information to come
Calgary, Alberta, Canada	April 21, 2009	FOUNDATION Fieldbus End User/EPC Seminars More information to come
Edmonton, Alberta, Canada	April 23, 2009	FOUNDATION Fieldbus End User/EPC Seminars More information to come
Montreal, Quebec, Canada	May, 7, 2009 (tentative)	FOUNDATION Fieldbus End User/EPC Seminar More information to come
Long Beach, California, USA	Oct. 15, 2009 (tentative)	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		
Duesseldorf, Germany	March 2-4, 2009	ARC Process Management Academy More information to come
Humberside, UK	March 2009	FOUNDATION Fieldbus End User/EPC Seminars More information to come
Hannover, Germany	April 20-24, 2009	Interkama Trade Show More information to come
Frankfurt, Germany	May 11-15, 2009	ACHEMA Trade Show More information to come
Le Havre, France	June 2009	FOUNDATION Fieldbus End User/EPC Seminar More information to come
Italy	June 2009	FOUNDATION Fieldbus End User/EPC Seminar More information to come
Brands	October 2009	FOUNDATION Fieldbus End User/EPC Seminar

Hatch, Kent, UK		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 SOUTHEAST ASIA		
Thailand	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Malaysia	To be determined	FOUNDATION Fieldbus End User/EPC Seminar More information to come
Jakarta, Indonesia	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
SEMINARS IN INDIA		
Chennai, India	Mid-December 2009	FOUNDATION Fieldbus End User Seminar More information to come
SEMINARS IN EAST ASIA		
Osaka, Japan	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Tokyo, Japan	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Korea	To be determined	To be determined

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

[Return to Top](#)

TECHNOLOGY NEWS

Free download: ARC whitepaper explains FOUNDATION SIF technology



Learn more about FOUNDATION safety instrumented functions (SIF) in a new 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](#).

[Return to Top](#)

PRODUCTS & SOLUTIONS

Endress+Hauser enables smarter pressure measurement

A new generation of pressure instruments from Endress+Hauser incorporates numerous new functions designed to support the user in both measurement and diagnosis. Cerabar S and Deltabar S measure pressure/differential pressure, level, and flow; Deltapilot S is designed for hydrostatic level measurement.



In addition to process variables, all devices provide diagnosis information such as sensor temperature, and peak pressure and number of over a range of events. A totalizer is also available for flow measurement. An enhanced analog input block supports output limit and sensor alarming through five dedicated discrete outputs. A discrete input block provides an output dependent on sensor diagnostic information, allowing direct influence on the process (for example, should a sensor diaphragm fail). A discrete output block controls device functions such as totalizer or counter reset. All devices support instantiation and provide a number of other function blocks relevant to their field of application (for instance, input selector, PID, arithmetic).

Interoperability is key at Endress+Hauser, therefore these devices are continuously tested with a wide range of systems, including Yokogawa and Emerson.

For more information, visit the [Endress+Hauser Website](#).

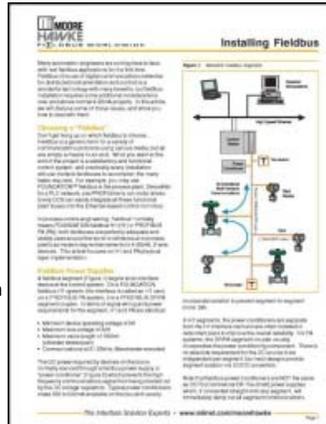
[Return to Top](#)

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 4-20mA 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.



Click thumbnail above to view full sized image

For more information and a complete listing of articles and whitepapers, visit the [Moore Industries/MooreHawke Website](#).

[Return to Top](#)

MTL adds powerful new features to Fieldbus diagnostic module

Based on its experience monitoring more than 9,000 fieldbus segments and in response to customer requests, MTL has added several new features to its F809F Fieldbus diagnostic module, including:

- Latching alarms acknowledgement option in device to reduce engineering time to configure latching alarms in host;
- Addition of pre-alarms so that alarms can be set as default values from Fieldbus standards and tailored to the conditions on a segment;
- Device lists maintained when module power cycled; and
- Retransmission rate updated from start-up with algorithm to prevent nuisance alarms.



Roger Highton, senior product manager for MTL Instruments said, "I have spoken to many DCS suppliers, engineering contractors, and, most importantly, end users about the Fieldbus diagnostic module over the last 18 months since the product launch. One theme is common to all their views. They say we have taken the right approach by making it communicate over FOUNDATION fieldbus so it easily integrates into their control system. With the flexibility of a

fieldbus device, many of them have also asked for enhancements and this release delivers key features requested by users.”

As a fieldbus device, interoperability with your choice of control system is critical. Interoperability approvals for this release have already been received from ABB, Emerson Process Management, Honeywell, Invensys, and Yokogawa.

To learn more, visit the [MTL Website](#).

[Return to Top](#)

Northwire Fieldbus cable designed for rugged industrial networks

DataCell FOUNDATION fieldbus cable from Northwire Inc., a leading manufacturer of cable for industrial networking, is offered for H1 networks in rugged plant environments using networked process automation and control.



The cables are easy to strip and rated for ITC/PLTC exposed run (ER) applications. The products let users eliminate conduit when the cable is installed in accordance with recent National Electrical Code (NEC)

amendments. As amended, the NEC permits exposed runs of certain ITC/PLTC. Metal-clad cable or conduit is no longer required, resulting in significant material and installation cost savings.

Among the most complete lines available, Northwire's FOUNDATION fieldbus cable includes marine-shipboard and arctic grade extreme—suitable for applications to -60 deg C. The cables are certified to meet or exceed new FF-844 specifications for Type A and are approved for use in Class I and Class II Div. 2 hazardous locations. They are UL listed ITC/PLTC-ER and CSA CMX-Outdoor-CMG FT4-rated.

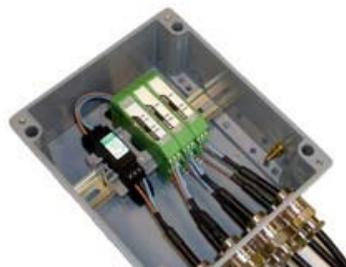
DataCell cables are available in 16- and 18-AWG, single and multi-pair cables with alternate color, shielding, and grounding options. Single-pair cables ship in 12-17 days direct from the factory with no minimums.

For more information, or to request a complimentary sample, visit the [Northwire Website](#) or call 1-800-468-1516 or 1-715-294-2121.

[Return to Top](#)

Phoenix Contact physical layer solution takes modular approach

A modular approach to Fieldbus physical layer components from Phoenix Contact provides infrastructure connection between the process Fieldbus controller and field devices. The new concept, says the company, combines industrial electronic packaging and data communications competencies to deliver a high-value Fieldbus infrastructure solution. It provides a number of benefits:



- The fieldbus is expanded without disrupting communication;
- Modular segment protection enables flexibility within the fieldbus network;
- Valuable enclosure space is saved because only the needed number of device couplers are installed;
- Scalability for fieldbus segment protection boosts control; and
- Fieldbus integrity equals a hot-swappable modular design.

For more details, visit the [Phoenix Contact Website](#).

[Return to Top](#)

R. Stahl provides discrete I/O signals for H1 Fieldbus networks

R. Stahl's new explosion-proof digital I/O coupler for the IS bus system ensures direct and consistent integration of simple sensors and actors, enabling an effective connection of intrinsically safe discrete signals in a FOUNDATION fieldbus environment. The device is suitable for installation in Zone 1 and Zone 2. It offers eight channels for NAMUR or EN 60947-5-6 compliant Ex i discrete input signals, and four high-performance Ex i outputs.



The I/O coupler can be used to integrate proximity switches, contacts, and indicator lights, as well as a wide range of solenoid valves, into a FOUNDATION fieldbus H1 network. Extensive function block support ensures that such solutions benefit from powerful FOUNDATION technology features. The coupler provides not only DI, DO, MDI, and MDO functions, but also advanced functions such as AI for frequency signals, CI for counters, and logic transducer blocks for inputs and outputs.

The Type 9413 coupler comes in a GRP or stainless steel enclosure. Wire breaks and short circuits are monitored on all channels and diagnostic messages are reported via the bus. Each output channel delivers a maximum current of 30 mA and a no-load voltage of 23.5 V, making the product suitable for nearly all intrinsically safe solenoid valves. Status LEDs for all single inputs and outputs status, line fault as well as the bus and power lines, are available.

R. Stahl supplies 2-wire or 4-wire models fed via a non-intrinsically safe fieldbus (high energy trunk); the 4-wire coupler can also be used with a separate power supply on an intrinsically safe FISCO bus.

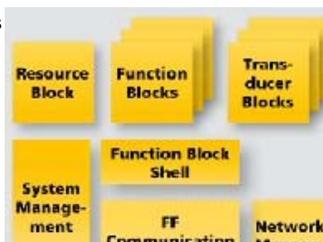
To learn more, visit the [R. Stahl Website](#).

[Return to Top](#)

Softing device protocol stack features up-to-date communication technology

A new version FOUNDATION fieldbus device protocol stack is now available from Softing, a leading provider of key components for FOUNDATION fieldbus devices. The device stack will also be available for the company's industry-hardened process communications module.

Version 2.30 contains a critical mass of new and intriguing features designed to persuade manufacturers of existing



field devices to upgrade their current implementations. Two primary new features of the device protocol stack are summarized below.

- Starting with device protocol stack Version 2.30 makes it possible to download software updates using the FOUNDATION fieldbus H1. This feature is implemented in accordance with the FF-822 Class 3 specification and allows a device manufacturer to field-upgrade an H1 device without the need to open a hermetically sealed device and without the need for an additional programming interface.
- By implementing the recommendations of NAMUR 107 (Enhanced Diagnostics FF-912 and Condensed Status PA 3.01), Softing was able to harmonize device diagnostic and status reporting. This new feature set improves and streamlines all necessary interactions with current asset management systems (AMS). An integral part of many process industry applications today, AMS help protect the investment and control costs. Implementing the recommendations of NAMUR 107 significantly improves the effectiveness of any AMS.

For more information on Version 2.30, visit the [Softing Website](#).

[Return to Top](#)

Trine North hires new instructor for FOUNDATION training classes

Trine University North has a new FOUNDATION fieldbus instructor. David Lancaster, a recently retired chief control systems engineer for Bechtel Oil, Gas & Chemical Inc. in Houston, Texas, will be conducting classes for the school and its Technology Center. Lancaster will teach one-, two-, or five-day classes every other month at Trine North, a regional trainer for certified users of fieldbus technology. He will also train on site by appointment.



A Texas registered professional engineer with 42 years experience in the engineering and contractor businesses, Lancaster will teach those involved in large, bulk-type processes like oil refining, pharmaceutical manufacturing, power generation, steel and paper production, and food processing about the use of the Fieldbus Foundation's digital technology. Process technicians and system design engineers who help upgrade facilities to use fieldbus technology, in particular, will benefit from the classes.

Lancaster has been involved in FOUNDATION fieldbus technology since 1999, and taught the technology internally at Bechtel. He is a senior member of the International Society of Automation (ISA) and is active in the Fieldbus Foundation, including participating in its 2008 General Assembly in Antwerp, Belgium. Lancaster also served on the Board of Directors for Emerson Global Users' Exchange for four years, and on the exchange's Advisory Board and Papers Committee.

"This technology has been my passion for the past ten years," said Lancaster. He said he teaches during retirement for one reason: it's fun. "I like teaching. I was chief engineer at Bechtel for years, and now I get to do the fun stuff without all the responsibility," he joked.

For more information on FOUNDATION fieldbus training, [email Wayne Mortorff](#), director of program development for Trine Technology Center. Or reach him by phone at 1-260-624-2420, Ext. 101.

[Return to Top](#)



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