FIELDCOMM GROUP™
Connecting the World of Process Automation

FIELD COMMUNICATION INSIDER

NEWS YOU CAN USE

Sept. 30, 2015

Field Communication Insider is an e-newsletter featuring the latest news and developments in the application of HART, FOUNDATION Fieldbus and FDI technology around the world.

Trunksafe fault-tolerant fieldbus system

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 fieldbus host and field devices without interruption in the event of a single-point failure such as an open-circuit or short circuit. Trunksafe consists of two redundant fieldbus dc power supplies and a specially engineered device coupler to provide a secure fieldbus physical layer. **Learn more.**

NEWS

ACHEMA Technology Wall demonstrates digital value
ACHEMA 2015 was an ideal location for taking a closer look at enabling technologies such as FOUNDATION™ Fieldbus, HART®, HART-IP™ and *Wireless*HART®, as well as the recently announced Field Device Integration (FDI®) standard. **Learn more.**

Sereiko named FieldComm Group director of marketing
Paul Sereiko, a technology-marketing veteran with extensive experience in the fields of sensing, wireless communications, embedded systems and telecommunications, has been named director of marketing for FieldComm Group. **Read more.**

Newest FieldComm Group member: Soldo Controls
Soldo Controls, a leading supplier of industrial limit switch and position transmitter technology, is the newest member of FieldComm Group. **Read more.**

Updated FDI development tool suite released
FieldComm Group has released the first update to its FDI (Field Device Integration) development tool suite. **Read more.**

Dow Chemical realizes reliability mprovements
Thanks to its efforts to infuse cultural improvements into effective reliability strategies, Dow Deer Park received the 2013 HART Plant of the Year Award. **Read more.**

FDI-based device management software free trial

ABB's Field Information Manager is the first FDI-based software for device management. It makes the configuration, commissioning, diagnostics and maintenance of fieldbus instruments easier and quicker than ever before. For a limited time, ABB is offering a free trial of the software, which is equipped with a high-performance and innovative graphical user interface that enables technicians to work with process instrumentation more effectively and efficiently. **Learn more.**

PRODUCTS

New product news you might be interested in:

- ABB offers free trial of FDI-based device management software
- Endress+Hauser launches new generation temperature transmitter
- Meggitt provides HART-enabled piezo-electric vibration sensors
- Microcyber's *Wireless*HART gateway integrates device information
- MooreHawke Trunkguard enables fast and safe device connection
- Endress+Hauser announces high performance coriolis flowmeter
- Phoenix Contact introduces modular Ethernet HART multiplexer

Latest Registered FOUNDATION Fieldbus and HART Products

The number of FOUNDATION Fieldbus and HART products registered by the FieldComm Group continues to grow. **Read more.**

CALENDAR

Free technology seminars offered in America

FieldComm Group's 2015 seminar program takes the mystery out of FOUNDATION Fieldbus and helps end users and systems integrators realize the true lifecycle benefits of the technology. **Read more.**

Americas

Smart Industry Conference 2015
Chicago, IL USA
October 5-7, 2015
More Information

Emerson Exchange 2015
Denver, CO USA
October 12-16, 2015
More Information

Free End User Fieldbus Seminar
Long Beach, CA, USA
November 5, 2015
More Information

Rockwell PSUG 2015
Chicago, IL USA
November 16-17, 2015
More Information

PowerGen 2015
Las Vegas, NV USA
December 8-10, 2015
More Information

Europe, Middle East, Africa (EMEA)

Distributed Control System (DCS) 20 Congress
Miskolc-Lillafüred, Hungary
October 20-22, 2015
More Information

CONTROL Roadshow
Vanderbijlpark, South Africa
November 3, 2015
More Information

mcT Petrolchimico Exhibition and Conference
Milan, Italya
November 2015
More Information

Asia-Pacific

Measurement and Control (JEMIMA)
Tokyo, Japana
December 2-4 20155
More Information

FieldComm Group General Assembly and End User Seminar)
Tokyo, Japan
December 2, 2015
More Information

Phoenix Contact: Your FieldComm partner

From the natural gas fields in the U.S. to Russian pipelines, Dutch refineries, Australian off-shore drilling, Middle East and Asian oil fields and Norwegian oil platforms—process engineers and technicians trust Phoenix Contact.

The communication, connectivity and diagnostics products for HART, *Wireless*HART, HART-IP and Foundation Fieldbus digital fieldbus communication technologies ensure a high degree of reliability and system availability for systems which often run many decades. Phoenix Contact implements the strict demands of safety, reliability and sustainability required in the oil and gas industry. **Learn more.**

SPONSORS

Endress+Hauser — People for Process Automation — MOORE HAWKE FIELDBUS WORLDWIDE

PEPPERL+FUCHS — softing Industrial Automation GmbH — ABB

azbil Azbil Corporation — EMERSON Process Management — FCI FLUID COMPONENTS INTERNATIONAL LLC

PHOENIX CONTACT INSPIRING INNOVATIONS — SIEMENS — MICROCYBER — GE

MEGGiTT smart engineering for extreme environments — ProComSol Process Communications Solutions — LEE COLLEGE — TRINE UNIVERSITY

ACHEMA Technology Wall demonstrates digital value

Chemical and other process industry end users seeking solutions to their operational challenges gained valuable insights at ACHEMA 2015, the global forum held every three years in Frankfurt, Germany. This important industry event attracts over 170,000 attendees from more than 100 countries across the globe and serves as a venue for demonstrating new innovations in the field of plant automation.

ACHEMA 2015 was an ideal location for taking a closer look at enabling technologies such as FOUNDATION™ Fieldbus, HART®, HART-IP™ and *Wireless*HART®, as well as the recently announced Field Device Integration (FDI®) standard. A visit to the ACHEMA "Field Communication Lounge" revealed the FieldComm Group's grand scale (330 sq. ft.) Technology Wall. This multi-vendor display included more than 40 leading suppliers and over 70 devices in a live technology demonstration. The interactive exhibit showed how digital integration enables industrial firms to use actionable intelligence to enhance decision-making, and thus achieve significant operational and business benefits.

Ted Masters, FieldComm Group president and CEO, said, "At ACHEMA 2015, we introduced the theme of CONNECT+INTEGRATE=VALUE. Our Technology Wall demonstrated the multiple ways automation end users can connect to valuable information in intelligent field devices—regardless of protocol—by using FDI to integrate the information in a control system, asset management application or ERP system; then visualize and evaluate the data; and ultimately take action based on the information to prevent shutdowns, lower operating costs, reduce maintenance expenses, and become more predictive in how plants are run."

According to Masters, the Technology Wall provided an unprecedented view of connectivity, including multiple suppliers' products and multiple device types. It helped attendees understand how crucial data can be integrated via Ethernet, wireless and other standard methods in their tools and applications. The demonstration also utilized the first commercially available FDI host, providing clear evidence of multi-protocol FDI support. This standard promises significant cost savings for device manufacturers due to unification of device integration into a single standard— not to mention a protected lifecycle for end users.

Participating in the Technology Wall was a "who's-who" of leading control system and instrumentation suppliers. For example, Siemens' wireless business development manager, Kurt Polzer, noted how FieldComm Group provides a unified, backward-compatible technology to describe and manage the multitude of intelligent field devices in a typical process plant. "The digital intelligence in field devices is robust and yet under-utilized in most real-time automation applications," Polzer said. "At ACHEMA, FieldComm Group demonstrated solutions that help systems and software convert data into actionable intelligence and capture value by improved operation. Modern process control systems like Siemens' Simatic PCS 7 integrate HART and redundant FOUNDATION Fieldbus communication, but they also offer the ability to integrate legacy systems via an additional communication infrastructure."

Ignace Verhamme, EMEA leader customer marketing for Honeywell Process Solutions, stated, "FieldComm Group's Technology Wall offered a clear vision for addressing integration issues. FDI provides a single technology for the management of information that comes from intelligent devices across all areas of the plant. Full support of FDI will

make it easier for end users, regardless of which protocols their installations are based upon."

The complete list of Technology Wall participants included: ABB, Badger Meter Europe, Beamex, Eaton, Emerson Process Management, Endress+Hauser, Fieldbus International, Fisher Controls, Fluke, Heinrichs Messtechnik, Honeywell, ifak System GmbH, KROHNE, MACTek, Marlew S.A., Meggitt Sensing Systems, MESCO Engineering, Microcyber, National Instruments, Pepperl+Fuchs, Phoenix Contact, ProComSol, R. Stahl, Riken Keiki Company, Rockwell Automation, SAMSON AG, Siemens, Softing, Turck and Yokogawa Electric.

For more information, please visit www.fieldcommgroup.org.

Sereiko named FieldComm Group director of marketing

Paul Sereiko, a technology-marketing veteran with extensive experience in the fields of sensing, wireless communications, embedded systems and telecommunications, has been named director of marketing for FieldComm Group.

Sereiko will be responsible for guiding global efforts to position and promote FieldComm Group technologies in the marketplace, expanding the organization's membership, and increasing the adoption of digital automation solutions throughout the process industries.

"The combination of the HART Communication Foundation and the Fieldbus Foundation, and the addition of Field Device Integration (FDI) within FieldComm Group provides a unique opportunity to create a standards-based platform driving actionable information from digital automation data", Sereiko said. "I look forward to building effective marketing programs with our global marketing team, member companies and end user groups to accelerate adoption of FieldComm Group protocols and specifications."

Ted Masters, president & CEO of FieldComm Group, welcomed Sereiko to his new position. He stated, "We are excited to have Paul join the team in this strategic role for FieldComm Group. He has a wealth of experience in linking key messaging to strategic direction for many technology-rich companies in our markets. Paul comes aboard at an exciting time to help introduce our new organization to the automation market."

Newest FieldComm Group member: Soldo Controls

[Soldo Controls](), a leading supplier of industrial limit switch and position transmitter technology, is the newest member of [FieldComm Group](). Headquartered in Desenzano del Garda, Italy, the company offers a new transmitter based on the HART Communication Protocol for use in process industry applications.

The product range of Soldo Controls consists of:

- Rotary limit switch boxes
- Bolt proximity switches
- NAMUR pneumatic components
- Declutchable manual overrides for pneumatic actuators
- Spring return safety devices

Soldo Controls is part of the [Rotork Group Instruments Division](), a global actuator manufacturer and flow control company. It has over 18 years experience producing limit switches to connect the control room to the field, and provide feedback related to valve automation.

Soldo Controls customers are found in markets such as oil and gas, chemical, food and beverage, water treatment, heating and others.

For more information, visit the [Soldo Controls website]().

For a complete list of all FieldComm Group members, go to [http://www.fieldcommgroup.org/org/about_us/member_list.html]()

Updated FDI development tool suite released

FieldComm Group has released the first update to its FDI (Field Device Integration) development tool suite. The suite includes FDI Package IDE (Integrated Development Environment), the development environment for creating FDI Packages; and FDI Common Host Components, the UI (Universal Interface) and EDD (Electronic Device Description) engines that allow for rapid development and support of FDI Packages in host systems.

Version 1.1 of the suite introduces several new capabilities for FDI product developers as shown in the table below.

Feature	Benefit	Development Tool:
Automated Package Test	Simplifies and reduces time and errors in testing	FDI Package IDE
PROFINET Support	Enables FDI package development for PROFI devices	FDI Package IDE
Offline Configuration	Enables configuration of devices prior to connection to the system	FDI Package IDE, FDI Common Host Components

A single device package makes it easier for instrumentation suppliers to develop and integrate their devices across a wide range of host systems and protocols.

FDI tools and host components are currently available for license from FieldComm Group for the FOUNDATION Fieldbus, HART and PROFIBUS/PROFINET protocols. FieldComm Group members can license FDI Package IDE for $1,900 per protocol and FDI Common Host Components for $50,000. Each include one-year of support.

For more information about FDI Tools and Components, please visit the [FDI Tools page](#) on the FieldComm Group website.

Dow Chemical realizes reliability improvements

Reliability is a critical concern in any industrial environment. Just ask Dow Chemical, a leading worldwide producer of plastics, chemicals and agricultural products. Dow's plant in Deer Park, Texas, manufactures methyl methacrylate, acrylic acid, amines and various acrylates. It occupies 700 acres along the Houston Ship Channel and employs eight production areas that operate as separate facilities or "plants within a plant."

Until recently, production downtime was a common occurrence at Dow Deer Park. The site historically averaged 50 unplanned events each year. Among the various instrumented technologies in the plant, control valves were the most likely to suffer wear and cycle damage.

Thanks to its efforts to infuse cultural improvements into effective reliability strategies, Dow Deer Park received the 2013 HART Plant of the Year Award. The facility implemented HART technology as part of a reliability enhancement program to monitor critical control valves connected to asset management software for diagnostics, failure analysis and preventative/predictive maintenance.

By utilizing HART technology as part of a comprehensive reliability program, Dow Deer Park minimized production problems caused by control valve failures and realized an 85% improvement in unplanned, instrument-related downtime. The facility recorded just eight unplanned events in 2014 and mean time between failure (MTBF) rates in production units improved. Results have been promising through the first three quarters of this year.

To reduce its valve-related problems, Dow developed a three-pronged approach:

- Prioritize the most critical valves
- Adhere to sound spare-parts-management practices
- Institute effective overhaul and condition-based maintenance strategies

Working with Deer Park's process automation team, the instrument reliability team deployed two software packages to track real-time instrument and control valve performance. These tools now communicate equipment deficiencies to the site's subject-matter experts and indicate when failures occur or are about to occur.

For Dow Chemical, access to intelligent information from HART instruments significantly reduced costs and improved plant operations as it enabled the transition from reactive to proactive maintenance. The Deer Park plant has benefited from condition-based management, which allows its maintenance department to institute corrective action based on real-time data to prioritize and optimize maintenance resources.

With this solution, plant personnel are able to pinpoint the root cause of an asset failure, devise a temporary solution to the problem, and then develop a plan-of-attack to avoid future issues.

The HART Plant of the Year is awarded annually to recognize the people, companies and plant sites around the world using HART communication in real-time applications to help improve operations, lower costs and increase availability. Previous award recipients include Monsanto (USA), Shell (Canada), MOL (Hungary), Mitsubishi Chemical (Japan), PVSDA (Venezuela), Statoil (Norway), Sasol Solvents (South Africa), BP (USA), Clariant (Germany) and Dupont (USA).

Gain global recognition for your innovative use of the FieldComm Group technologies. To nominate your plant for the FieldComm Group 2015 Plant of the Year, visit go.fieldcommgroup.org/award.

ABB offers free trial of FDI-based device management software

ABB Field Information Manager (FIM) is the first device management tool to fully embrace the Field Device Integration (FDI) Common Host Components. It is the first FDI-based software for device management and makes the configuration, commissioning, diagnostics and maintenance of fieldbus instruments easier and quicker than ever before. FIM is equipped with a high-performance and innovative graphical user interface that helps technicians to more effectively work with process instrumentation.

 ABB is currently offering a free trial of its "Device Window Edition" of the FIM software. Key features are:

- Interoperability based on FDI Common Host components
- ABB device packages pre-loaded
- Generic HART device package for all HART devices
- Option to import DD/EDD files, in case device packages are not suitable
- New concepts for ease of use and navigation with touch support
- Standalone tool for point-to-point online communication with one HART device
- Upgradable later for multiple devices

To obtain a free trial, visit the ABB website.

Endress+Hauser launches new generation temperature transmitter

[Endress+Hauser's](#) iTEMP TMT162 is a FOUNDATION Fieldbus temperature transmitter designed to meet the highest demands in ruggedness, accuracy and diagnostic capabilities. Available with an aluminum or stainless steel housing, it has separate electronic and connection compartments for safe and quick installation, as well as gold-plated terminals for long-term protection against corrosion. RTD, thermocouple, O and mV sensors can be connected. A large backlit display provides measurement, bar graph and diagnostic information. Certified transmitter versions are available with various types of Ex-protection.

The iTEMP TMT162 transmitter supports two-channel operation with monitoring of redundancy and temperature drift, as well as calculation of differential and average temperature. In order to ensure highest accuracy in critical applications, sensors can be matched by Callendar/Van Dusen equation or linearization.

iTEMP TMT162 conforms to ITK 6.1.2 and the Field Diagnostic System specification (NAMUR NE 107). Diagnostic messages can be allocated as required to four urgency categories, with additional information available when required. The resulting quick identification and rectifying of faults increases the availability of the plant. Built-in diagnostic functions include recognition of sensor short-circuit, lead breakage and RTD/TC corrosion. The transmitter is easily integrated in all common control and asset management systems.

For more information, visit the Endress+Hauser website.

Meggitt provides HART-enabled piezo-electric vibration sensors

Meggitt's PCH420 series are the first HART-enabled piezo-electric vibration sensors enabling continuous online monitoring of balance-of-plant assets with a digital connection to PLC or DCS systems for local analysis of multiple vibration bands. They support installation in multi-drop configurations and reduce wiring requirements. HART functionality enables the user to specify vibration frequency bands, detector types and full-scale measurement ranges—effectively enabling field-configuration for specific monitoring requirements.

PCH420 sensors are powered by the network for continuous coverage, unlike wireless solutions which only offer snapshots of asset performance and utilize batteries that require frequent replacement. PCH systems are less than half the cost of wireless monitoring systems that require gateways and other infrastructure to install, and can cost more than $1,000 per measurement point. The easily implemented technology allows data to be accessed by HART-enabled process controllers and information systems for better-informed decisions and improved predictive diagnostic capabilities.

Meggitt's new technology adds vibration sensors to the ranks of temperature, pressure, flow, level and analytical transmitters, which have been HART-capable for more than a decade.

For more information, visit the Meggitt website.

Microcyber's WirelessHART gateway integrates device information

Microcyber's *Wireless*HART gateway is designed for the establishment, management, optimization and maintenance of a *Wireless*HART network—making devices safer and more effective. It also integrates wireless device information from the network to a PC system or data application, and provides related security assurance.

 The *Wireless*HART gateway offers important features such as:

- Leading data reliability, network safety and advanced application experience
- Web service for real-time network and data check without restrictions
- Ease of verifying abundant device status information in the web service
- Flexible configuration functionality

For more information, visit the Microcyber website.

MooreHawke TRUNKGUARD enables fast and safe device connection

[MooreHawke's](#) TRUNKGUARD Series 200 Fieldbus Device Couplers (TG200) are a fast and easy way to connect multiple fieldbus devices to a main fieldbus trunk in FOUNDATION Fieldbus H1 and PROFIBUS PA networks. They are designed for installation in General Purpose, Non-Incendive and Zone 2 applications and are available in ready-to-install, field mount enclosures.

Protect Spurs from Segment Faults: On detection of excess current on a fieldbus spur, the TG200 reacts immediately (20 microseconds) to switch spur current to a nominal trickle-level. With removal of the short, the spur is automatically reconnected to the fieldbus segment. This is a significant advantage to "current-limiting" designs on other device couplers, which hold a fault permanently on the segment at a higher than normal current level. This often results in segment failure by overloading the segment power supply.
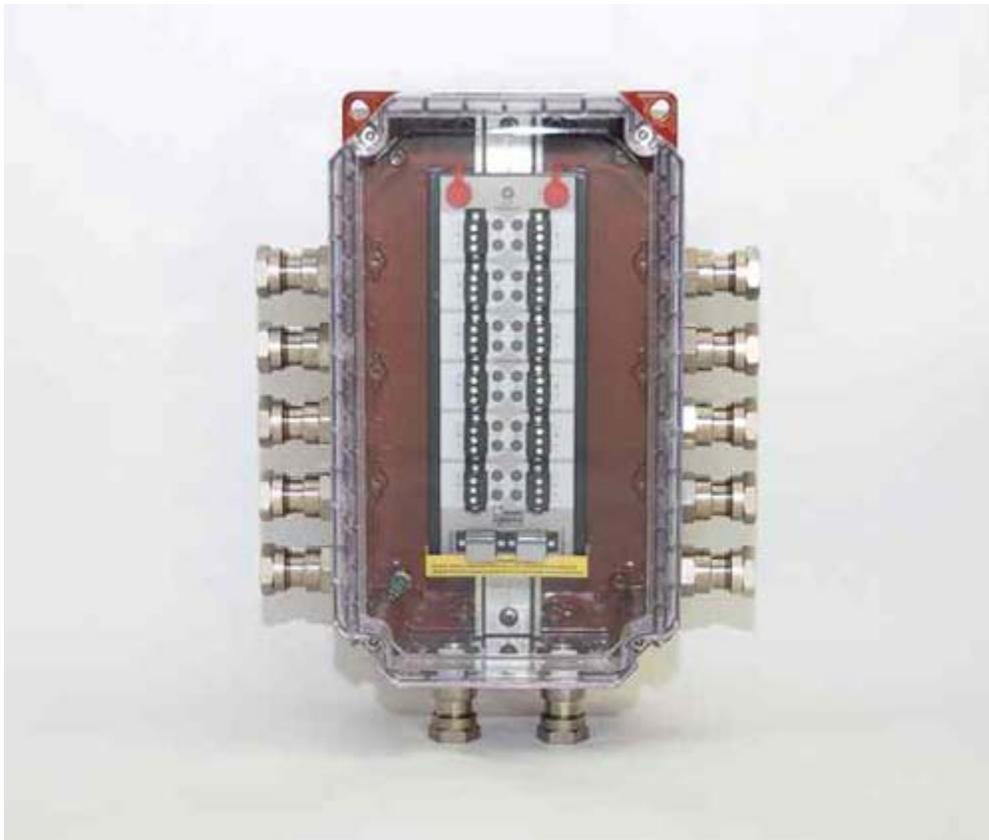
Automatic Segment Termination: Patented Automatic Segment Termination eliminates the most common installation error: segment failure from under or over termination. Its auto-termination feature assures that local parts of a fieldbus segment will continue with proper termination even if remote parts of that segment are accidentally disconnected. This prevents costly downtime and hazardous situations.

For more information, visit the MooreHawke website.

Endress+Hauser announces high performance coriolis flowmeter

[Endress+Hauser's](#) Proline Promass 200 is a multi-variable mass flowmeter, available in a number of versions that meet the highest industrial demands. For chemical, oil and gas applications, it has been independently tested in accordance with IEC 61508, providing SIL2 or SIL3 according to application. Various types of protection are available with the appropriate Ex-certificates. 3A-approved hygienic versions with various process connections are available for food & beverage applications.

The device has either a coated aluminum or stainless steel housing. A stainless steel body with an acid- and alkali-resistance surface houses a highly accurate dual-tube sensor. For local checks, a large backlit display provides measurement and diagnostic data. Heartbeat Technology™ ensures that correct device functioning can be verified at any time.

The Promass 200 is available with a FOUNDATION Fieldbus interface, providing field diagnostics according to the FF-912 diagnostics specification. Sensor, electronics,

configuration and process conditions are monitored continuously. Error messages, with remedial information, are sorted into four distinct categories, making it easy for the user to identify and rectify faults. Additional diagnostic information is provided in an event log, which records all diagnostic, configuration and process events encountered in daily operation.

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

Phoenix Contact introduces modular Ethernet HART multiplexer

Phoenix Contact's new Ethernet HART multiplexer provides a simple way to parameterize and monitor field devices on an Ethernet network. The GW PL ETH/-… is an up-to-date replacement for the widely used RS-485 HART multiplexer solution. The new multiplexer lets users perform operations that save time and money—including loop checks, device calibration, and improved process monitoring with multivariable devices—with existing devices.

The multiplexer consists of a head station and a variety of HART expansion modules to suit any application need. The modular design allows up to five expansion modules to be connected to a single head station. The result is a scalable solution for modern, distributed control systems and phased roll-outs.

The multiplexer supports the recently released HART-IP protocol, the new standard for HART communication over Ethernet. This offers an easy-to-use, widely available interface to provide standardized deployment and the ability to do intelligent HART device management using Ethernet.

Designed for applications like partial-stroke testing, valve diagnostics, and batch-data transfers, the multiplexer features a HART master on each channel for the fastest possible updates and execution times. All of the modules are rated for use in Class I, Division 2 and Zone 2 hazardous locations and operate in -40 to 70 degrees Celsius temperature extremes.

For more information, visit the [Phoenix Contact](#) website.

Latest Registered FOUNDATION Fieldbus Products

The number of FOUNDATION Fieldbus and HART products registered by the FieldComm Group continues to grow. FieldComm Group is one of the only automation industry organizations with a registration program requiring mandatory testing of critical elements of its technologies. The effort encompasses host systems and field devices and physical layer components such as power supplies and device couplers from all segments of the automation market.

The table lists the most recently registered products by manufacturer, type, and model/host name.

New Registered Host Systems			
Protocol	**Manufacturer**	**Type**	**Model/Host Name**
FOUNDATION Fieldbus	Honeywell Industrial Automation & Control	61B Integrated Host (H1)	Honeywell PlantCruise
FOUNDATION Fieldbus	Honeywell Industrial Automation & Control	61B Integrated Host (H1)	Honeywell LX
New Registered Devices			
Protocol	**Manufacturer**	**Type**	**Model/Host Name**
HART	A&H Enterprises	Valve Positioner	ACM 2 HRT
HART	AUMA	Actuator	AUMATIC AC 01.2/ACEx 01.2
HART	AWIATECH Corporation	Wireless Repeater	Awia Sentry A

FOUNDATION Fieldbus	Azbil (formerly Yamatake Corporation)	Pressure Transmitter	AT9000 Model GTX
HART	Azbil Corporation	Valve Positioner	AVP700 SIS
HART	Berthold Technologies GmbH & Co. KG	Density Meter	LB480 Density
HART	Berthold Technologies GmbH & Co. KG	Level Meter	LB480 Level
HART	Berthold Technologies GmbH & Co. KG	Level Meter	LB480 LevelSwitch
HART	CiDRA Corporate Services, Inc.	Flow	GVF-100
HART	CiDRA Corporate Services, Inc.	Flow Monitoring System	VF-100
HART	Define Instruments Ltd	Temperature Transmitter	HT1
FOUNDATION Fieldbus	Emerson Process Management	Electric Actuator	CAM228/CAM28
FOUNDATION Fieldbus	Endress + Hauser	Oxygen Transmitter	Liquline Oxygen
HART	Endress+Hauser	2-Wire Magnetic Flow Meter	Promag 200
HART	FSUE "SPA "Analitpribor"	Analytical	DAK
HART	GASENSOR TECHNOLOGY PTE LTD	Temperature Transmitter	GQ-CE8900
HART	GASENSOR TECHNOLOGY PTE LTD	Temperature Transmitter	GT-CT8900

HART	HACH LANGE GmbH	Measurement Of Dissolved Oxygen And Temperature	sc200 Amperometric Module – Configured for O2 SCAVENGER
HART	HACH LANGE GmbH	Measurement Of Contacting Conductivity And Temperature	sc200 Conductivity Module – Configured for CCO
HART	HACH LANGE GmbH	Measurement Of Inductive Conductivity And Temperature	sc200 Conductivity Module – Configured for ICO
HART	HACH LANGE GmbH	Measurement Of Ph Value And Temperature	sc200 pH Module
HART	Honeywell	Level Tdr Transmitter	SmartLine RM7
HART	Honeywell	Level Meter	SmartLine RM77
HART	Honeywell	Temperature Transmitter	STT650
FOUNDATION Fieldbus	Honeywell Industrial Automation & Control	Guided Wave Radar Level Transmitter	Smartline / SLG700
HART	Honeywell Process Solutions	Level Tdr Transmitter	Smartline RM76
HART	Honeywell Process Solutions	Level Meter	Smartline RM77
HART	Imtex Controls Limited	Positioner	ST-4312
HART	Moore Industries	Temperature Transmitter	THZ3/TDZ3
HART	Oval	Ultrasonic Flow	Psonic-L4

		Meter	
HART	Rotork Process Controls	Actuator	Actuator
HART	Shanghai Automation Instrumentation	Actuator	ID/AI
HART	Siemens	Positioner	SIPART PS2
HART	SWISA Instrument Inc.	Level Meter	MAT
FOUNDATION Fieldbus	Thermo Fisher Scientific	Level And Density Transmitter	MS2011
HART	Thermo Measure Tech	Level Transmitter	MS2011
HART	Valve Automation	Actuator	EIM CAM206
FOUNDATION Fieldbus	VEGA Grieshaber KG	Radar Level Transmitter	VEGAPULS 69
HART	VEGA-Grieshaber KG	Radar Level Transmitter	VEGAPULS 69
HART	VEGA-Grieshaber KG	Pressure Transmitter	VEGABAR 80 series SIL
HART	VEGA-Grieshaber KG	Level Transmitter	VEGAFLEX 80 series SIL
HART	Walsn Enterprises Ltd.	Electromagnetic Flowmeter	EMF 1000 Series
FOUNDATION Fieldbus	Yokogawa Electric Corporation	Ph Transmitter	FLXA21 PH
FOUNDATION Fieldbus	Yokogawa Electric Corporation	Conductivity And Resistivity Transmitter	FLXA21 SC
HART	Yokogawa Electric Corporation	Gas Detector	TDLS8000
Updated Registered Devices			

Protocol	Manufacturer	Type	Model/Host Name
FOUNDATION Fieldbus	AUMA	Electric Valve Actuator	[Aumatic AC 01.2 / ACExC 01.2](#)
HART	Daniel Industries	Flow	[3410 Series Gas USM](#)
HART	Daniel Industries	Flow	[3810 Series Liquid USM](#)
HART	Daniel Measurement and Control Inc.	Ultrasonic Gas Flow Meter	[3410 Series Gas Ultrasonic Meter](#)
HART	Daniel Measurement and Control Inc.	Ultrasonic Gas Flow Meter	[3810 Series Liquid Ultrasonic Meter](#)
FOUNDATION Fieldbus	DREHMO GmbH	Electric Actuator	[DREHMO i-matic](#)
FOUNDATION Fieldbus	Emerson Process Management	Discrete Valve Controller	[Q Series QC54](#)
FOUNDATION Fieldbus	Endress + Hauser	Ph/Orp Transmitter	[Liquiline phORP](#)
FOUNDATION Fieldbus	Endress + Hauser	Conductivity Transmitter	[Liquiline Cond](#)
FOUNDATION Fieldbus	Endress + Hauser	Guided Radar Level Measurement Device	[Levelflex FMP5x](#)
FOUNDATION Fieldbus	Endress + Hauser	Radar Level Transmitter	[Micropilot FMR5x](#)
FOUNDATION Fieldbus	Endress + Hauser	Temperature Head Transmitter	[TMT162](#)
HART	Endress+Hauser	2-Wire Coriolis Flow Meter	[Promass 200](#)
HART	Endress+Hauser Process Solutions	2-Wire Magnetic Flow Meter	[PROMAG 200](#)
HART	FLEXIM Flexible	Ultrasonic	[FLUXUS](#)

	Industriemesstechnik GmbH	Flowmeter	
FOUNDATION Fieldbus	Flexim GmbH	Ultrasonic Flowmeter	Fluxus F721
FOUNDATION Fieldbus	Flexim GmbH	Ultrasonic Flowmeter	Fluxus G721
FOUNDATION Fieldbus	Flexim GmbH	Ultrasonic Flowmeter	Fluxus H721
FOUNDATION Fieldbus	Flexim GmbH	Ultrasonic Flowmeter	PIOX S721
FOUNDATION Fieldbus	Flexim GmbH	Refractometer	PIOX R721
HART	Flowserve	Actuator	Logix MD+
FOUNDATION Fieldbus	GE Sensing	Ultrasonic Liquid Flowmeter	XMT868i
FOUNDATION Fieldbus	GE Sensing	Ultrasonic Liquid Flowmeter	DF868
FOUNDATION Fieldbus	General Electric	Positioner	SVI FF
HART	Honeywell Process Solutions	Pressure Transmitter	ST 800
HART	Honeywell Process Solutions	Temperature Transmitter	STT850
HART	Metso Automation	Actuator	ND9100H
HART	Metso Automation Inc.	Valve Positioner	ND7000H
FOUNDATION Fieldbus	VEGA Grieshaber KG	Level Transmitter	Vegaflex 80 Series
FOUNDATION Fieldbus	VEGA Grieshaber KG	Pressure Transmitter	Vegabar 80 Series
Updated Electronic Device Description (EDD)			

Protocol	Manufacturer	Type	Model/Host Name
FOUNDATION Fieldbus	Emerson Process Management	Guided Wave Radar Level Transmitter	[Rosemount 5300 Series](#)
FOUNDATION Fieldbus	Emerson Process Management	Radar Level Transmitter	[Rosemount 5400 Series](#)
HART	Flowserve	Actuator	[Logix MD+](#)
FOUNDATION Fieldbus	Honeywell Industrial Automation & Control	Temperature Transmitter	[SmartLine/STT850](#)
FOUNDATION Fieldbus	KROHNE Messtechnik	Ultrasonic Flowmeter	[OPTISONIC UFC400](#)
FOUNDATION Fieldbus	Magnetrol	Magnetrostrictive Level Transmitter	[Orion Jupiter JM4](#)
HART	Micro Motion	Coriolis Mass Flow Meter	[MVD Series 2000 Config I/O](#)
HART	VEGA-Grieshaber KG	Level Transmitter	[VEGAFLEX 80 series](#)
HART	VEGA-Grieshaber KG	Level Transmitter	[VEGAPULS 61](#)
HART	VEGA-Grieshaber KG	Level Transmitter	[VEGAPULS 62](#)
HART	VEGA-Grieshaber KG	Level Transmitter	[VEGAPULS 63](#)
HART	VEGA-Grieshaber KG	Level Transmitter	[VEGAPULS 65](#)
HART	VEGA-Grieshaber KG	Level Transmitter	[VEGAPULS 66](#)
HART	VEGA-Grieshaber KG	Level Transmitter	[VEGAPULS 67](#)
HART	VEGA-Grieshaber KG	Level Transmitter	[VEGAPULS 68](#)

HART	VEGA-Grieshaber KG	Level Transmitter	[VEGAPULS SR 68](#)
HART	VEGA-Grieshaber KG	Level Transmitter	[VEGAPULS WL 61](#)
HART	Yokogawa Electric Corporation	Pressure Transmitter	[EJX](#)
New Physical Layer Components			
Protocol	**Manufacturer**	**Type**	**Model/Host Name**
FOUNDATION Fieldbus	Phoenix Contact	Four Channel Redundant Power Supply	[FB-PS-PLUG-24DC/28DC/0.5/EX (Module) with FB-PS-MB-*/EX (Base)](#)

Free technology seminars offered in America

[FieldComm Group's](#) 2015 seminar program takes the mystery out of FOUNDATION Fieldbus and helps end users and systems integrators realize the true lifecycle benefits of the technology. Thanks to the generous support of FieldComm Group's sponsoring members, seminars are offered at no charge to attendees.

The seminar program is intended for companies contemplating their first FOUNDATION Fieldbus project, experienced end users seeking to get the most out of their installation, and systems integrators looking for insights on successful technology implementation. For 2015, a new live process demonstration unit will allow attendees to interact with key features ranging from VirtualMarshalling, to control-in-the-field and advanced diagnostics. The new demo has the latest product offerings from device manufacturers and provides an opportunity for end users to speak directly with knowledgeable FOUNDATION Fieldbus solution providers.

All participants receive Professional Development Hours (PDH) for attending the seminars, as well as a 10% discount on all regularly priced training at participating North American FOUNDATION Certified Training Program (FCTP) centers.

Seminars typically run 8 a.m. to 4:30 p.m. and include free lunch and morning and afternoon breaks. Walk-up registrations are accepted.

Four out of five scheduled 2015 seminars have occurred with upwards of 50 attendees at each event. The final seminar of the year will take place in Long Beach, Calif., on November 5.

For more information, please visit the [FOUNDATION Fieldbus Events page](#) on the FieldComm Group website or email marketing@fieldcommgroup.org.