

PROFINETS

North American Edition

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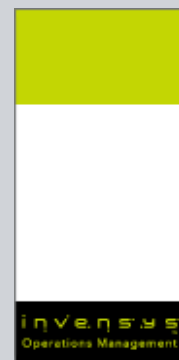


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GENERAL NEWS

WELCOME TO OUR NEW NAME & NEW IMAGE: This issue of PROFINETS reflects some key changes that have taken place in recent weeks. You'll read more about them below but in summary PTO has aligned itself tightly with the global PI organization, changed its name to PI North America and introduced a new logo and corporate identity. This is the first issue of PROFINETS North America to comply. We hope you like the design. The content, however, does not change! It includes the same high quality material as before, to help you understand and select the right networking technology for your next product or plant needs. Enjoy!





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nebx
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PROFIBUS® DP and PA Cables In Stock



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INTRODUCING THE 'ALL THINGS PROFINET' WEB SITE:

A new web site dedicated to PROFINET was launched at the General Assembly Meeting in August ([see report below](#)). Called 'All Things PROFINET' the site is designed specifically as a single entry point for prospective users and developers of PROFINET products and systems. It already answers most of the 'how to' questions faced by PROFINET newbies and is structured so that different types of users can find a quick route to the information they need to understand what PROFINET can do, and how the benefits can be brought to life in real applications. Signposts for End Users, OEMs and Device Developers provide a logical route into and through the site, with 'job title' choices acting as the primary guide mechanism. The site is a user-friendly resource that focuses on benefits and delivers easy access to the solutions offered by PROFINET across automation as a whole. Links to deeper technical topics are provided. A control engineer can step through a complete PROFINET project from start to finish. Even IT managers have not been forgotten as they are often a key decision-player in choosing Industrial Ethernet solutions!



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NAME CHANGED AT AUGUST GENERAL ASSEMBLY MEETING:

A significant name change for the former PTO in North America was one of the first announcements to be made at the recent General Assembly Meeting in Scottsdale, AZ. Henceforth, the organization is to be called 'PI North America', bringing the North American organization into line with the latest global PI corporate identity.




Executive Director Mike Bryant told delegates that the change reflects the growing global influence of PI while strengthening the 'community' factor that has been one of its most powerful advantages. "We lead with PROFIBUS, and PROFINET is following in its footsteps. By creating a single global presence we raise our game and significantly enhance the market opportunities for all our members, wherever they are around the world," he said.

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One of the most keenly-listened to presentations at the GAM was by Connie Chick of GE, who delved deeper into the decision by her company to support PROFINET in future automation systems, solutions and components. Jim Remski of Siemens also delivered a memorable presentation by outlining the needs of automotive manufacturers when transitioning to PROFINET, supporting his assertions with case studies. See [GAM](#) report here

STILL TIME TO BOOK FREE TRAINING CLASSES: There are still five chances to reserve

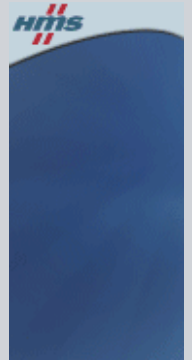
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NEW
Prosonic S

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your place at one of PI North America's 2010 free training classes on PROFIBUS and PROFINET. See the table below for details. A notable item of feedback from a recent attendee was: "Thanks again for a great class! I thought it was very professional and high-quality all the way around. It was very well organized. Even more amazing, it was free! I felt that it met or exceeded the quality level I would expect from an expensive paid training course." The classes are increasingly booked out, so early booking is advisable.

FREE One Day Training Classes		
DATE	PROFIBUS	PROFINET
Sept	Baltimore	Toronto (closed) Montreal
Oct	Omaha	Dallas
Nov		Detroit
The list to watch is here		

PROFIBUS classes now cover both discrete *and* process automation, since PROFIBUS handles both types of application with a single protocol. The PROFIBUS class also has more PROFINET content this year. PROFINET classes are focusing on *using* PROFINET, so when students leave they're ready for their first PROFINET project. The list of training events is maintained [here](#). The schedule, class contents and the amazing added-value content (including the PDH benefits) were recently blogged by [Carl Henning here](#). Table tops by members give delegates the chance to see products and talk informally with experts.

We continually tweak the classes based on feedback and recently reduced coverage of PROFIsafe and functional safety over the network because of low interest. Suddenly we are getting all kinds of questions about these topics; is networked functional safety finally coming to North America? If you want to catch up, there's PROFIsafe webinar [here](#).



(BTW, we had to close the registrations for the recent Cleveland event because we ran out of space. Toronto now, too! Book early!)

For full immersion in PROFINET and PROFIBUS technology, consider our 4-day [Certified Network Engineer](#) classes. They include a class for PROFIBUS PA during 2010!

Finally, we've archived some webinars [on other relevant topics here](#).

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WEBINARS FOR DEVELOPERS: Are you adding PROFINET to your products? Then you might be interested in our PROFINET Developer webinar series. It begins with an overview of the development process and the types of tools available to accelerate your effort in [The Rapid Way to PROFINET](#). The series continues with specific tool providers showcasing their solutions. PROFINET Development Kits from PROFI Interface Center is the [first in the series](#). Or, visit our new web site [All Things PROFINET](#).

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PROFINET IN PROCESS: The special capabilities needed by PROFINET to make it fully acceptable to the process industries are being specified now by PI Working Groups and nearing review. They should be released early in 2011. PROFINET supplements PROFIBUS PA in hazardous



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environments by providing a high-speed, high-bandwidth backbone for PROFIBUS PA (and other networks) while bringing immediate connectivity to drives and discrete IO. The specialist requirements being addressed are:

1. Proxies - to connect lower level process buses (including PROFIBUS PA, Foundation Fieldbus, WirelessHART, and others) into a PROFINET network.
2. 'Configuration in Run' (CiR) - the ability to make changes to a program without stopping the controller.
3. Time Sync / Time Stamping - self-explanatory.
4. Scalable Redundancy - PROFINET already has media redundancy but needs to support system redundancy for process use too.

PI North America member GE is participating in the Working Groups to help develop these capabilities.

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PLANNING GUIDE PUBLISHED: PI has completed the publication of a three-part Installation Guide to support plant manufacturers and operators in their planning, installation, and commissioning of PROFIBUS networks. Through proper conceptual planning and careful installation, operators can avoid countless errors. The first two volumes ("Cabling and Assembly Guideline" and "Commissioning Guideline") have



been available for some time. The latest - PROFIBUS Guideline for Planning - provides an easy-to-use overview about planning PROFIBUS systems. The volume covers both PROFIBUS DP and PROFIBUS PA. The guideline includes the selection of cable types and plug connectors. Information is provided for planning transmission lines using copper as well as fiber optic cable. The guideline also contains tips for estimating bus cycle times and information regarding shielding and grounding of PROFIBUS systems, as well as a document template for documenting plants. The three guidelines can be [downloaded here](#).

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COMMISSIONING GUIDELINE FOR PROFINET: This commissioning guideline is available for members and non-members from the PI Website, together with checklists for individual adaptation. Guidelines for cabling and assembly are also available. They describe how to properly install and commission PROFINET wiring and provide practical guidance on the best ways to achieve this. The presentation has been kept as simple as possible. Background knowledge about PROFINET mounting and cabling is not required although, a basic technical knowledge of electrical installation is assumed. The PROFINET Commissioning Guideline is available together with a separate Word-File, which provides protocols and checklists for individual adaptations. [Download it here](#).

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WORLD NEWS

INDIA: The Indian PROFIBUS, PROFINET Association (IPA) now has 17 active member companies. After participation in the Hannover Fair IA 2009 at Mumbai in December, IPA has been holding a series of road shows called "PROFIBUS,

PROFINET Days", with events in Mumbai, Bangalore & Chennai. At Bangalore, IPA secretary Mr Dileep Miskin(center) honored Mr. Vishwanath (left) of ECIL for his valuable



contribution to the field of Electronics and Automation. **DENMARK:** More than 40 people attended a PROFIBUS workshop, presented by Manfred Popp from ComDec (a PI Competence Center) and held in conjunction with PI. **BRAZIL:** PROFIBUS Brazil organized a series of PROFIBUS workshops in June and July. Lectures about PROFIBUS were also held at the Brazilian Petroleum Institute in July.

JAPAN: Japanese PROFIBUS Organization (JPO) held its annual "PROFIBUS & PROFINET Day" in Tokyo during June. More than 200 visitors attended and 24 JPO members and two associations showed their technologies and products (right) .



UK: There are still a few free places left at the latest in the popular series of free PROFIBUS in Process seminars in October. **SWITZERLAND:** IO-Link Technology Days are being organized by MSC Gleichmann Schweiz, HMT microelectronic and MESCO Engineering in September and

December. **SWEDEN:** The Swedish PROFIBUS/PROFINET group is now preparing for the Scanautomatic Fair in Gothenburg 26-28 October.

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APPLICATIONS

APPLICATIONS: A major European laboratory is using a redundant PROFIBUS-based bumpless transfer control system for a particle accelerator. A refurb across tank farms at four Spanish ports has introduced a new monitoring and alarming system based on PROFIBUS. [More here.](#)



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PROFIpeople - the 'who's who' of PROFIBUS and PROFINET

PETER WENZEL: Peter is Executive Director of PNO in Germany (that's our sister organization) and he's been with PNO for almost exactly 10 years. Formerly employed at a Computer Research Center, he also worked for ABB. His roles include coordinating the activities of the Technical Working Groups and ensuring that WG leaders provide timely reports of their work to the Advisory Board. He is also responsible for the day-to-day running of the PNO organization. The best part of the job, says Peter, is "the great variety of tasks I have to perform". These range from financial matters to ensuring that technical developments meet real world needs. "Please remind your



readers that any member, anywhere in the world, can join our Technical Committees and Working Groups," he said, adding: "We especially welcome North American involvement." Duly done Peter, and

congratulations on your ten years with PNO.

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NEW PRODUCTS

MICRO MOTION METERS GET PROFIBUS DP: Emerson Process Management's Micro Motion F-Series compact Coriolis meters are now available with PROFIBUS DP and Smart Meter Verification, an easy-to-use configuration tool that delivers assurance of the structural and measurement integrity of the meter. These new capabilities are enabled by connectivity to the enhanced core processor and 2400S transmitter, both powered by Micro Motion next-generation MVDT (multivariable digital) processing technology, which enables superior stability and meter performance. [EMERSON PROCESS MANAGEMENT.](#)



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PROFIBUS INTERFACE FOR POSITION SENSORS: Balluff's PROFIBUS/Micropulse interface block simplifies the connection process and reduces costs by enabling up to four Micropulse linear position transducers to be connected on a single PROFIBUS node. The interface block also has four extra inputs for discrete or analog sensors. Up to 15 position magnets can be used on each transducer with detailed diagnostic feedback over PROFIBUS. Applications include injection molding, metal stamping, printing, and paper handling equipment. The interface combines discrete, analog, and linear positioning devices into one PROFIBUS node, saving time and money in installation and component costs. [BALLUFF.](#)



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NEW DIAGNOSTICS SUITE FOR PROFIBUS: Softing has announced its new unified PROFIBUS Diagnostic Suite V2.02. The new software offers one-click PROFIBUS diagnostics and is intuitive with a clear, easy-to-understand display of network health and can be [downloaded here](#) to update current diagnostic toolsets. This is free-of-charge and does not require any software license. A powerful new feature is a "Quick-Test" button which initiates a full analysis of a PROFIBUS network. Critical conditions are color-coded and the user has quick access to additional information. The package includes support for all Softing's diagnostic products including the PROFIBUS Tester 4, the PROFIBUS Electrical Tester, the PROFIBUS DP+PA Protocol Analyzer and the PROFIBUS Inspektor. [SOFTING.](#)



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FIELDBUS I/O STATION IS MODULAR: Murrelektronik's Cube20 PROFIBUS Module is a fieldbus I/O station with modular expandability. It enables 488 I/Os to be placed on just 90 centimeters of DIN rail. Cube20 includes a diagnostic system that reduces downtime and increases productivity. The module features a signal status and error display located directly at the connecting terminal, rapid failure localization and single channel diagnostics at outputs. Modules are galvanically separated and have an integrated power-supply terminal to simplify the implementation of different potential groups. Cube20 can be operated as a stand-alone unit at the fieldbus or in combination with Murrelektronik's

Cube67. Different bus nodes are available making it possible to exchange buses without changing the system. [MURRELECTRONIK](#).

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ENHANCED CompactLogix SUPPORT: Prosoft's PROFIBUS DP Master V1 module communication module for the CompactLogix platform is now equipped with CIPconnect, a feature that allows a PC to connect to the MVI69-PDPMV1 module via the Ethernet port of a 1769-L35E or L32E module. With CIPconnect, users are able to configure the PROFIBUS master module and network from a PC using the ProSoft Configuration Builder (PCB). Users are also able to view diagnostic information, upload files, and download files. [PROSOFT](#).



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PROFINET BUS COUPLER: This new I/O bus coupler for PROFINET with IP20 protection serves as a link between the I/O level and Ethernet. It is designed to connect up to 62 or 16 functional units - such as digital and analog inputs/outputs or counters - to the network via an SCRJ plug connector. The Ethernet and I/O-specific LEDs ensure quick commissioning and easy diagnostics. The coupler has the full functional scope of the PROFINET Stack 3.1 and therefore provides the LLDP, PDEV, MRP, ASR, I&M functions and dynamic PROFIBUS functionality.



The bus coupler is fully integrated in the Automationworx system from Phoenix Contact based on the PC Worx 5 automation software. I/O data and diagnostics data are directly linked in using variable names - just the same as for fieldbus integration. Customers can access the bus-specific device description files in the download area. [PHOENIX CONTACT](#).

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IN-LINE PROFIBUS PHOTOMETERS: Endress+Hauser has a new UV sensor and Memograph transmitter with built-in PROFIBUS connectivity for the in-line measurement of UV absorption. A built-in reference channel and an optimized measuring filter permit extremely precise, linear and reproducible measurement. The Easycal sensor system and the precision optical path length adjustment tool allow liquid-free in-line calibration. Available are FM and ATEX approved lamp housings for hazardous area applications. [ENDRESS + HAUSER](#).



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the home of PROFIBUS and PROFINET in North America



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