

# Read-out



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Ireland's journal of instrumentation, control, and automation

**iStig**  
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ON A COMPUTER NEAR YOU

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ISSUE****DEADLINE  
20 MARCH  
2014**

## ABB Process range for Hanley

**H**anley Measurement & Control has built a reputation for the supply of specialist solutions and expertise in process instrumentation, process analytical technology and gas detection. Founded in 1981 it has long been considered as a leading automation in Ireland. The company has recently been appointed as channel partner in Ireland by ABB, to expand its instrument and analyser offering into the Irish process market.

The partnership will see the company acting as the official sales agent for ABB's complete portfolio of instrumentation and analyser products for applications in the pharmaceutical, chemical, food and beverage and other related industries.

**Chris Kennedy**, Managing Director of Hanley Measurement & Control explained that *"partnering with ABB enables the company to provide its customers with an enhance product range specifically in relation to flow measurement and analytical solutions."*

Commenting on the partnership, **Tim Door**, General Manager for ABB's Measurement and Analytics business in Britain and Ireland says:

*"The partnership with Hanley Measurement and Control marks a*

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(LtoR) **Chris Kennedy**, **Gavin O'Driscoll** and **Eoin O'Neill** of Hanley Measurement & Control together with **Aidan Edwards** of ABB stand next to a representation of a 2.5 meter magnetic flowmeter (the largest ever supplied!) during a recent visit to the ABB flow meter manufacturing facility in Stonehouse, GB.

### Automation Publications consolidate

In a major development the International Society of Automation (ISA) has acquired Automation.com. This was founded in 2000. The company originally launched a job board focused on automation careers this will remain as an independent entity as [www.automationtechies.com](http://www.automationtechies.com)

"We are excited to join two powerhouse teams in the world of automation and leverage each other's

strengths in the coming months and years," said **Pat Gouhin**, ISA CEO. "This is great news for ISA's members, customers, corporate partners and advertisers – and it is great news for the profession as a whole."

[www.isa.org](http://www.isa.org)

Hanley &ABB from page 1

positive move forward that underlines our intent to grow our presence in the Irish process market. The company is a great fit for our growing range of measurement and control products for improving process performance and efficiency.”  
“Utilising a well-known and respected partner such as Hanley Measurement & Control will allow our customers in Ireland to get full access to support and service going forward into 2015 and beyond.”

[hanleycontrols.ie/](http://hanleycontrols.ie/)

## Wireless Co-operation



The ISA100 Wireless Compliance Institute (WCI) has announced that **Yokogawa Electric Corporation** and **Murata Manufacturing Co., Ltd** have entered into an agreement in which Murata will develop communication modules for ISA100 Wireless field wireless devices.

Murata is a worldwide leader in the design, manufacture and sale of ceramic-based passive electronic components and solutions, communication modules and, power supply modules. In a demonstration of support for ISA100 Wireless technology, Murata recently joined the ISA100 Wireless Compliance Institute as a technical member.

Murata will develop ISA100 Wireless communication modules by licensing the technology from Yokogawa. This arrangement enables Murata to expand its communication products business to industrial wireless

devices for use in manufacturing sites around the globe. This partnership supports Yokogawa’s strategy to broaden adoption of its field wireless systems based on the ISA100 Wireless standard.

“The alliance between Yokogawa and Murata provides another proof point in the broad applicability of ISA100 Wireless technology,” said Andre Ristaino, Managing Director, ISA100 Wireless Compliance Institute. “We welcome Murata to WCI and look forward to its portfolio of ISA100 Wireless™ offerings.”

[www.isa100wci.org](http://www.isa100wci.org)

## Vortex flowmeters

A new course on “*Vortex Flowmeters: Applications*” has been released on the Krohne Academy online learning . The free of charge eLearning course deals with the most common uses of Vortex flowmeters in auxiliary and supply circuits. It covers the requirements for applications that involve steam, compressed air as well as natural gas, and how to solve them with Vortex flowmeters. These sample applications are discussed in detail:

- Steam boiler monitoring
- Measurement of steam consumption
- Steam distribution and billing
- Gross/net heat measurement
- Compressed air measurement
- Gas burner measurement

The course consists of one learning module with a corresponding test allowing participants to assess their knowledge. The course has been made available in English and German to date, however other language versions (e.g. Russian, Chinese) are planned to be released in 2015. This latest course adds to a whole range of courses on process instrumentation already avail-

able on the company’s website at [academy-online.krohne.com](http://academy-online.krohne.com). Krohne products are marketed in Ireland by **DWM**.

[www.dwn.iw](http://www.dwn.iw)

## Speaker



**Jerry O’Gorman**, CEO of **B&B Electronics** was a featured speaker at the Internet of Things (IoT) World Forum, in London last November. He spoke at on “The Promise of SWARM Intelligence: Distributed Intelligence at the Network Edge.”

“Machines have been talking to machines for decades, but IoT technologies have inserted more intelligence – and more complexity – into the conversation,” he said. He discussed methods for efficiently, reliably operating wireless sensor networks (WSNs) in remote, demanding IoT environments, including deploying intelligence at the network edge, SWARM intelligence™, power management techniques and self-forming, self-healing, self-sustaining and scalable wireless mesh network technology.

O’Gorman gave this analogy to explain SWARM intelligence. Consider how ants, bees and termites behave. Complicated nests are built, food is collected and stored, enemies are fended off, and the queen is protected, all by creatures that have virtually no individual

intelligence. By following their simple rule sets, their collective behavior adds up to intelligence. “Translating this concept to robotics, computing or WSNs, expendable, not very intelligent devices could accomplish sophisticated tasks by following simple rule sets and working in groups,” explained O’Gorman. Mr. O’Gorman was also participated on a panel, “Establishing an IoT strategy for telecom operators,” at Total Telecom Festival’s IoT Awards event also in London.

[www.bb-elec.com/](http://www.bb-elec.com/)

## Air Compressors

C&L Industrial Ltd, based in Galway and Dublin has been appointed as an authorised premier distributor for Atlas Copco’s range of industrial air compressors, quality air products and spare parts.

This appointment gives the company access to the range of GX and GA rotary compressors, including variable speed drive models, SF scrolls and L range of reciprocating compressors, with the addition of N2 nitrogen generators. C&L will also distribute Atlas Copco’s comprehensive range of air purification accessories, including dryers, filters and oil-water separators, as well as genuine Atlas Copco spare parts.



(L-R): Sean Fairest - Country Manager for Compressor Technique in Ireland (Atlas Copco), Colum Whelan - Principle and owner (C&L) Industrial, Tom Dowling - Business Line Manager (Atlas Copco)

**People, Companies, Products, Technology, Events  
all on the Read-out Signpost [read-out.net](http://read-out.net)**

## Maxing wireless Power!



ASmart Wireless Navigator, a software platform from **Emerson** enables users with large wireless deployments to maximise the power of their wireless networks. The Navigator brings together Smart Wireless tools for planning, managing, and maintaining networks. Valuable wireless network and device diagnostics and data are organised in an intuitive interface, along with the wireless tools, to streamline the Smart Wireless experience.

*"Wireless technology is as scalable as it is powerful,"* commented **Bob Karschnia**, vice president of wireless at Emerson. *"As users' facilities grow, they are expanding to installations of multiple wireless networks managed by different groups"*

The Smart Wireless Navigator helps users effortlessly manage their expanding wireless infrastructure and get the most value from their wireless networks. A single software platform design makes it easier for users with large deployments of wireless to manage their networks across functional groups, delivering actionable information to the people who need it.

*"To maximise value, facilities also needed a central platform to plan and deploy new networks and to organise the influx of new data and diagnostics,"* continued Karschnia. *"In answer, we developed a single window interface that brings together several Smart Wireless tools on a specially designed appliance to maximise visibility, efficiency and value."*

An intuitive design organises large amounts of wireless diagnostic information and data, and existing infrastructure is illustrated and easily understood. *"The Smart Wireless Navigator is a comprehensive tool that helps*

*users realise the value of wireless across the range of reliability, safety, environmental accountability and process performance, it delivers value throughout the cycle of engineering, installation, operation and maintenance."*

[www.EmersonProcess.com](http://www.EmersonProcess.com)

## Increasing Energy Prices



The ALTOSONIC V12 gas flow meter has been launched by Krohne. Marketed in Ireland by **DWN** the next generation of ultrasonic gas flow meters for custody transfer applications.

The unit has 12 measuring chords, two of which are solely dedicated to diagnostic functions. Once commissioned, it continuously checks the operating status. The positioning of the chords in five horizontal parallel planes compensates for swirl and thus, provides reliable measurements, even with highly distorted flow profiles. The diagnostics in the ALTOSONIC V12 can reliably assess deposits, contamination or changes in wall roughness, so that maintenance can be scheduled according to actual needs.

In the development of the ALTOSONIC V12, Krohne focused on two significant problems that customers encounter and which cannot be satisfactorily addressed by existing ultrasonic flow meters: The first challenge was how to transfer the calibration curve obtained under ideal conditions in the high-pressure test rig to the real-life measuring station with its headers, strainers, bent pipes, etc. In order to solve this, hundreds of flow profiles in all kinds of applications were analysed as part of the product development.

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<b>YOUR INDUSTRY</b> (Please Tick)	Are you involved in choice of purchase of instrumentation?	
01 Pharma & Chemical Industry	<input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
02 Consultant	<input type="checkbox"/>	
03 Contractor	<input type="checkbox"/>	<b>APPLICATIONS</b> (Please Tick)
04 Education/Training	<input type="checkbox"/>	01 Process Control <input type="checkbox"/>
05 Electronics & Electrical	<input type="checkbox"/>	02 T&M <input type="checkbox"/>
06 Engineering	<input type="checkbox"/>	03 Laboratory <input type="checkbox"/>
07 Food & Drink	<input type="checkbox"/>	04 Environment <input type="checkbox"/>
08 Foreign Inst Manf	<input type="checkbox"/>	05 Safety <input type="checkbox"/>
09 Public Services (incl Govt Depts, Unions, Hospitals)	<input type="checkbox"/>	06 Quality <input type="checkbox"/>
10 Instrument Manufacturer	<input type="checkbox"/>	99 Other Please give details: <input type="checkbox"/>
11 Instrument Sales	<input type="checkbox"/>	
12 Power	<input type="checkbox"/>	
13 Process Industry	<input type="checkbox"/>	<b>EMPLOYEE NOS</b> (Please Tick)
14 R&D	<input type="checkbox"/>	1+ <input type="checkbox"/> 25+ <input type="checkbox"/> 100+ <input type="checkbox"/> 500+ <input type="checkbox"/>
15 Water & Waste	<input type="checkbox"/>	
16 Recruitment	<input type="checkbox"/>	Member ISA <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
17 Publisher - Magazines	<input type="checkbox"/>	Member InstMC <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
18 Publisher - Books	<input type="checkbox"/>	
19 Exhibition Organiser	<input type="checkbox"/>	Do you read other <u>Instrument</u> Journals?
20 Public Relations & Journalists	<input type="checkbox"/>	<i>Intech</i> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
21 Software Development	<input type="checkbox"/>	<i>Control Engineering</i> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
99 Other Please give details:	<input type="checkbox"/>	<i>Instrumentation</i> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
		Other (name) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>CATEGORIES</b> (Please Tick)		
01 Service Engineer	<input type="checkbox"/>	
02 Specifier/Consultant	<input type="checkbox"/>	Have you access to InterNet? Yes <input type="checkbox"/> No <input type="checkbox"/>
03 Supplier	<input type="checkbox"/>	
04 Manager/Director	<input type="checkbox"/>	My name may be used for mailings other than
05 Inst Technician	<input type="checkbox"/>	Readout or Readout related mailings
06 Inst Fitter	<input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
07 Student/Apprentice	<input type="checkbox"/>	
99 Other Please give details:	<input type="checkbox"/>	

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## INTERNATIONAL CONFERENCE



**Profibus Ireland** are hosting a series of international meetings in the week beginning Mon 18th May 2015.

- The following meetings will be held:
- **PI (PROFIBUS/PROFINET International) Meeting** –  
Chairmen meeting of 27 Regional associations-  
Some of the topic covered:  
Strategy and marketing
  - **PICC (PI Competency Centres) Meeting** –  
Representatives from 51 Centres globally  
Topic: Technical support for industry for  
PROFIBUS, PROFINET and IO link
  - **PITC (PI Training Centres) Meeting** –  
Representative from 28 centres globally  
Topics: Training syllabi and examination  
requirements
  - **PITL (PI Test Labs) Meeting**-Representatives  
from 10 labs.  
Topics: Test and certification requirements

They will also be marking the 10th anniversary Re-establishment of **PROFIBUS association in Ireland.**

[www.profibus.ie](http://www.profibus.ie)

More event news on  
[read-out.net/signpost/expo.html](http://read-out.net/signpost/expo.html)

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## THE CONTROL CENTRE

Read-out is produced on an Apple Power Macintosh using Quark Xpress, MS Word, MS Excel and Adobe Photoshop.

Type Setting: Read-out: 087 2663282  
 Printing: O'Sullivan Print: 086 2583053  
 Distribution: Sooner Than Later: 01 2844777  
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The result is that the ALTOSONIC V12 is now the first ultrasonic flow meter capable of complying with the ISO17089 and AGA9 standards having 5D straight inlet requirements without using a flow straightener.

The second challenge concerned self-monitoring of the flow meter during operation: In other words, defining the accuracy of billing after a certain period of operation. Applying the proven reflecting technique, the meter is able to detect not only changes in the flow profile, but also the changes in the cross sectional area. Through this, the ALTOSONIC V12 is capable of assessing process changes that existing ultrasonic flow meters cannot even detect.

The ALTOSONIC V12 meter is available in sizes 4" – 24", an installation length of 3D, and a maximum operating pressure of 2200 psi. It is compatible with commonly used protocols and can be seamlessly integrated into any

existing infrastructure.

[www.dwn.ie](http://www.dwn.ie)

### Wearable technology

Schneider Electric has released Wonderware® SmartGlance™ 2014 R2 mobile reporting software. The updated version includes a host of new features that make monitoring, visualising and analysing real-time plant and industrial process data via mobile devices easier than ever. These features include support for wearable technologies, a modern user interface for any browser, self-serve registration, support for multiple time zones for a global user base and full import and export capabilities for even faster deployment.

"Plant personnel are now mobile so they require immediate access to real-time operations information via their smart phone, tablet or whatever mobile device they carry," said Saadi Kermani, Wonderware SmartGlance product manager, "Wonderware

## Wonderware SmartGlance - Smartwatch



SmartGlance 2014 R2 software delivers highly relevant information coming from industrial data sources to targeted plant workers in the form of personalised charts, reports and alerts. It provides them with the flexibility they need to view and instantly collaborate around real-time plant data on any device so they can make rapid, effective decisions."

With a small install footprint and no additional hardware requirements, the Wonderware

SmartGlance implementation process is fast and simple. MyAlerts, the software's newest mobile app feature, proactively notifies users of process events so they can stay current with real-time information based on configurable thresholds for tag reports. The software can be used with smart watches to alert mobile and remote field workers, plant supervisors and managers of critical production and process information in a real-time, hands-free manner.

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## Leading Vision System Solutions



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By leveraging the combined power of mobility and Schneider Electric's cloud-hosted managed services, the software empowers mobile and remote users with the right information at the right time, without disruption or distraction, so they can quickly assign resources and resolve issues. It also features an open interface to connect and push data to mobile devices from virtually any data source, including historians, manufacturing execution systems, enterprise manufacturing intelligence systems or any real-time system of record. It also provides connectors for accessing data from any SQL database and any OPC-HDA-compatible system for better access to third-party data sources and systems. This most recent version also extends connectivity to key Schneider Electric software products, including its Vijeo Citect SCADA offering, InStep PRiSM predictive asset analytics software and the InStep eDNA historian.

[www.wonderware.ie/](http://www.wonderware.ie/)

### Ingenious and affordable



Take one multipin valve terminal, exchange the D-sub connector with an M12 connector – and what do you get? A Fieldbus ready valve terminal at the same cost. The CTEL installation system from Festo allows a wide range of networks to be connected and interchanged quickly and easily using Festo's plug and work principle.

With IO-Link connecting directly to the M12 connector and other networks via CTEU modules, the CTEL installation system is perfect for machine builders looking to design pneumatics once and change the network as often as required for different customers and PLC

specifications. Additionally, by removing the enclosure cover, keeping the meter's interior electronics fully protected. The entire product carries FM, CSA, ATEX, and IECEx approvals for use in hazardous area level applications or in the field under the harshest environmental conditions.

[www.festo.ie](http://www.festo.ie)

### New meters



Precision Digital Corporation, represented in Ireland by **P J Bonner**, has announced the latest ProVu® family member, the PD6001 Feet & Inches 1/8 DIN Panel Meter. A NEMA 4X panel mounted indicator, the PD6001 is based on a reliable, economical design that features an easy-to-read feet & inches display with adjustable brightness. FT and IN indicators make it ideal for level applications. It is also available as the ProtEX®-MAX PD8-6001, an explosion-proof meter for hazardous areas.

The PD6001 and PD8-6001 Feet & Inches Meters include field-selectable inputs, allowing seamless integration of existing 0-20/4-20 mA or +/-10 V transmitters. The meters can also be set up as Modbus RTU Slaves. Both meters can be easily installed into virtually any level application using common 4-20 mA or 0-10 V level transmitters. The displayed product level may be clearly labelled with a custom tag and unit. Programming the unit is even easier with free MeterView® Pro software, which streamlines meter setup and eliminates a lot of button pushing. The ProtEX-MAX PD8-6001 Feet & Inches Meter is housed in an explosion-proof enclosure for use in hazardous areas. SafeTouch® through-glass buttons provide accessibility to the front buttons without

removing the enclosure cover, keeping the meter's interior electronics fully protected. The entire product carries FM, CSA, ATEX, and IECEx approvals for use in hazardous area level applications or in the field under the harshest environmental conditions.

"We regularly communicate with distributors, end users, and technicians in the field, which leads to the development of new products," said Jeffrey Peters, President of Precision Digital Corp. "The success of our Super Snooper Modbus® Scanners, coupled with the demand for Feet & Inches displays, influenced the expansion of the ProVu Series to include a low-cost model that doesn't sacrifice quality."

Options include up to four (4) relays, a 4-20 mA analog output, and dual 24 VDC power supplies. Expansion modules for the 1/8 DIN models add an additional four (4) relays, two (2) 4-20 mA outputs, and eight (8) digital I/O.

[www.pjbonner.ie](http://www.pjbonner.ie)

### Paddle flow



BW DIGI-METER® Micro-Flo with Analog Output displays flow rate and accumulated total flow, and features 4-20 mA / 0-10 VDC circuitry for low flow applications. Units include an NPN open collector output for communication with SCADA systems. Flow ranges include 30-7000mL/min.

There are a number of connection options both threaded and OD. A clear PVC viewing lens allows for visual confirmation of flow. A PVDF chemical resistant lens is also available. The LCD display indicates operating mode and

battery status. The memory is nonvolatile.

It is field programmable via a front panel touch pad, or can be factory programmed. The front panel has a lockout option, and the Total Reset Function can be disabled to prevent tampering. Electronics are AC powered. The Display is remote mounted, and is weather resistant NEMA 4X washdown.

[www.bluwite.com](http://www.bluwite.com)

### > 300 Protocol support

Red Lion's flagship Crimson® 3.0 software now offers communication support for more than 300 industrial protocols. Protocol conversion is a key element needed to make the concept of the Connected Factory a reality, empowering plant managers to adapt existing equipment including drives, PLCs and HMIs to drive efficiency while reducing total cost of ownership in industrial environments. Red Lion products are marketed in Ireland by Instrument Technology.

"One of the many challenges faced by end users, OEMs and system integrators is to find software tools that enable communications between hundreds of disparate devices and protocols in both a cost effective and time effective manner," according to **Craig Resnick**, vice president at ARC Advisory Group. "These software tools must be intuitive enough to enable disparate device and protocol communications via simple configuration programs that do not require programming or training. Red Lion's Crimson 3.0 software appears to fulfil these market requirements that in turn provides the business benefits of quicker project deployment, better asset utilisation and a greater number of devices actively communicating, all of which results in increased productivity and profitability for manufacturers and integrators alike."

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With just a few clicks, Crimson converts protocols for disparate industrial devices, allowing them to share work-in-process, machine status and other information. Deployed on Red Lion's award-winning Graphite® HMI panels, ProducTVity Station™, Data Station Plus or other industrial automation offerings, Crimson gives organisations the ability to boost productivity, optimise material usage and troubleshoot systems in real time. Supporting the simultaneous conversion of multiple protocols, the use of Crimson-enabled products allow companies to easily integrate almost any PLC, PC or SCADA system for data collection, monitoring and control of factory floor equipment from different manufacturers.

*“Connecting systems and sharing information enables companies to optimise productivity and streamline processes, but in order*

*to do that the devices need to be able to communicate,” said Jeff Thornton, director of product management at Red Lion Controls. “By offering support for over 300 industrial protocols that vary from proprietary to open-source, we give our customers the industry’s widest range of choices to seamlessly extend connectivity across the factory floor to remote locations without requiring new equipment investments.”*

[www.redlion.net/Crimson](http://www.redlion.net/Crimson)  
[www.itl.ie](http://www.itl.ie)

### Integrated production



Yokogawa has developed the CENTUM® VP R6.01, an

enhanced version of the company's flagship integrated production control system, and its release in February 2015. R6.01 will mark the first step in the development of an all-new CENTUM VP that will play a central role in the VigilantPlant® strategy for the IA business.

Manufacturers today need a high degree of certainty and confidence to achieve timely production, and flexibility to make changes in product and material specifications. This enables them to effectively respond to intense global competition and major market shifts.

The adaptive evolution of the new CENTUM VP focuses on addressing customers' needs to keep up with the fast pace of change in the business landscape and technology while delivering maximum return on assets and the lowest total cost of ownership. This first R6-level release of the system represents much more than conventional functional

improvements. R6 brings together smart engineering, advanced operation, system agility, and sustainable plant. With R6, plant operators can be assured of an optimum engineering environment that spans the entire plant lifecycle, from plant design and the engineering and installation of systems and devices to the start-up of production, maintenance, and renovation. In addition, it is designed to meet the most stringent industry requirements for safe and reliable plant operations and environmental protection.

R6.01 features an exciting expansion of Yokogawa's lineup of I/O devices and introduces crucial new control system components. Combined with an intuitive engineering environment, it dramatically reduces the time required to configure and install a control system.

[www.irishpowerandprocess.com/](http://www.irishpowerandprocess.com/)

[Automation events read-out.net/signpost/expo.html](http://Automation events read-out.net/signpost/expo.html)

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## Ultrasonic flow meters



The Daniel™ multi-path gas and liquid ultrasonic meters features a next-generation electronics platform. The accuracy, line size breadth, and flexibility make the new JuniorSonic™ one-path (3411) or two-path (3412), and SeniorSonic™ four-path (3414) gas ultrasonic meters ideal for a number of flow measurement applications. In addition, the new four-path (3814) liquid ultrasonic meter expands on the functionality and performance of its predecessor, the 3804 liquid ultrasonic meter, to offer improved reliability for custody transfer applications.

Designed for speed, reliability, ease-of-use, and measurement integrity, the new ultrasonic flow meters provide exceptional measurement accuracy and repeatability. With faster flow sampling rates, the new electronics platform significantly increases the data set used to calculate average velocity, allowing rapid recognition of changing flow dynamics. Users will have access to high-volume data capture as well as detailed flow parameters, including pressure, temperature, and gas

composition, allowing the meter to act as a redundant flow computer. Improved calculations for auditing or invoice resolution are enabled by the electronics' ultra-fast delivery of key data from the meter's audit trail. The audit trail complies with American Petroleum Institute Standard 21.1, and is supported by a standard 128 MB non-volatile memory. Access to alarms, events and configuration changes is provided in a matter of seconds.

Additionally, the meters' electronics feature a compact circuit board for increased reliability and maintainability, simplifying field removal and reinstallation. The electronics retrofit Daniel legacy ultrasonic meters and are expandable, enabling future upgrades to help meet changing customer needs. The electronics support remote access as well as true 100BaseT Fast Ethernet connectivity to facilitate enterprise-wide communication and integration.

"Reliable, stable and accurate measurement is critically important to our customers' business," said Peter Syrnok, vice president of engineering of Emerson's Daniel Measurement and Control business. "We remain focused on designing products that serve these important market needs and are continually improving the performance of ultrasonic flow measurement technology to provide excellent long-term measurement accuracy."

To further improve reliability and uptime, each Daniel gas ultrasonic meter is supplied with new, rugged T-20 Series transducers that are engineered for wet, rich and/or dirty gas applications. The transducers facilitate troubleshooting by enabling operators to quickly detect and isolate problems, preventing unnecessary depressurisation of the meter.

The new Daniel gas and liquid ultrasonic meters are also equipped with an updated version of MeterLink (v1.20), a configuration and diagnostic

software that utilises an intuitive interface to improve overall functionality and ease of use. MeterLink displays abnormal flow profiles, upstream blockage, deposit build-up within the meter, and the existence of liquid hydrocarbon in gas – an invaluable benefit for shale gas applications and new pipelines where remains of hydro test water may still exist. In addition, a guided wizard tool helps configure the meter in the field, decreasing commissioning time and minimising start-up costs and operator error.

[www.EmersonProcess.com/Daniel](http://www.EmersonProcess.com/Daniel)

## Smart level



The SmartLine® Guided Wave Radar Level transmitter has been launched by Honeywell. The new device can measure the level and volume of liquids inside processing tanks up to 160 feet in height.

The high performance SmartLine Guided Wave Radar Level transmitter features industry leading specifications as well as an advanced level of user experience with the introduction of the Application Validation Tool. This online tool allows customers to input technical data about their specific process tank and to validate that the correct level transmitter application is delivered to the site ready to install out of the box.

"The new SmartLine level transmitter leverages the same proven platform, innovative

modular design and ease of use as the pressure and temperature transmitters," said Don Maness, vice president and general manager, Field Products, Honeywell Process Solutions. "This helps facilities manage cost by reducing inventory, speeding start-up and, with Honeywell's Application Validation Tool, operators can have complete confidence that the level transmitter ordered will be the correct one for the tank application."

The new level transmitter features a choice of a basic alphanumeric display or an advanced graphics display. The advanced graphics display, capable of showing process data in graphical formats and communicating messages from the control room, also offers multiple languages and full integration with Honeywell's flagship Experion® process control system.

Field instruments are used throughout industrial plants to measure and transmit critical data points from throughout the processes to the control room. Large industrial complexes, such as those for refining crude oil or producing chemical products, can employ thousands of these devices within their manufacturing processes.

[www.honeywellprocess.com](http://www.honeywellprocess.com)

## 3 independent phases



The Fluke 6003A Three Phase Electrical Power Source, from Irish Power & Process, is a cost-effective instrument that provides the superior accuracy and performance of three independent phases in one compact device. The unit is accurate enough for calibration laboratories, with specifications of plus-or-minus 0.038 percent for power and

**Products** from page 8

plus-or-minus 0.01 degree for phase. Its compact form factor also makes it easy to transport and maintain in manufacturing companies, electric utility meter shops, and other organisations that manufacture, maintain, and calibrate power meters, energy meters, power quality analysers, and similar tools.

It delivers the accuracy and features found in more expensive three-phase systems. It provides three independent phases of precise voltage and current. It also sources power quality phenomena, including harmonics, interharmonics, and dip/swell variations. It includes measurement capabilities for dc voltage, dc resistance, and frequency for measuring outputs from power and energy transducers.

Because it's a single instrument, the 6003A is easier to transport to test workloads in situ, takes up less bench space, and is more cost effective to maintain than multi-

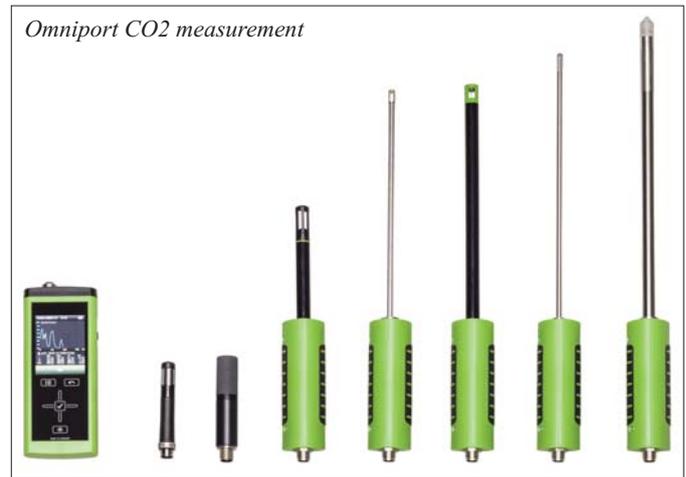
piece units. Its graphical user interface enables users to set up complex harmonic signals quickly and easily. It also makes the instrument remarkably easy to learn and use, so new users become productive quickly.

Specialised capabilities can be added, including an energy option, which adds a pulse counter and pulse output; a power quality option that enables the 6003A to calibrate power quality instrumentation by generating up to 63 harmonics, an interharmonic, modulation (flicker), and dips and swells on all three channels; and a 90 A adapter with high-current leads that generates up to 90 A from a single current phase to manage high-current workloads.

[www.irishpowerandprocess.com/](http://www.irishpowerandprocess.com/)

### CO<sub>2</sub> probe

The Omniport 30 hand-held meter from E+E Elektronik now has a CO<sub>2</sub> probe with a measurement range of 0...2000 / 5000 / 10,000ppm. This means that the



device can be used for ambient air monitoring or for CO<sub>2</sub> leak localisation. Other E+E probes for humidity, temperature and air velocity and the integrated air pressure sensor make the Omniport 30 a universal measuring instrument for a variety of applications. A total of up to 23 different measurements can be recorded and stored.

The new CO<sub>2</sub> probe is based on the NDIR dual wave length procedure and was developed

specifically for demanding applications. Auto calibration and temperature compensation ensure long-term stability and high precision measurement results. The CO<sub>2</sub> probe can also be calibrated directly on-site via the hand-held.

The Omniport 30 offers continuous and single-point data logging with time stamp. Up to three measurements can be displayed simultaneously on the large, easy to read TFT display.

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## Introducing our Mobile Flow Calibration Services

Endress+Hauser, one of the leading manufacturers of process measurement instrumentation are now bringing our expertise to mobile calibration services. Our highly qualified service engineers come to you with mobile calibration equipment and perform calibrations for you on-site. On-site calibration allows you to optimize your process up-time and save money.

This offering brings the benefits of flow calibration laboratory to your plant. This complete system is made to provide you with ISO/IEC 17025 compliant calibrations with minimum downtime of measurement equipment. Endress+Hauser is the leading global equipment manufacturer delivering accredited on-site calibration services together with full range of complementing services, products and solutions. Together with highest quality calibration of Endress+Hauser devices, we are willing to become your one-stop-shop calibration provider for your complete installed base, including devices from other manufacturers.

We offer you a free of charge equipment assessment on your site to define your calibration requirements and propose you the best calibration solution that will meet your exact needs.

### Mobile calibration services to suit your business needs

For more information, please visit our website  
[www.ie.endress.com/services](http://www.ie.endress.com/services)

Or call Mark Murphy, our Sales Engineer for Service Contracts  
on 045 989 216 or email Mark at [mark.murphy@ie.endress.com](mailto:mark.murphy@ie.endress.com)



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People for Process Automation

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The data can also be displayed in the form of graphs. The intuitive menu guidance and touchscreen navigation make operating the hand-held easy and user friendly.

The internal memory of the Omniport 30 provides space for up to 2 million measurement values that can be transferred to a PC via USB interface. Complimentary data management software is available to carry out further analysis and archiving. Software updates can also be carried out via the USB interface.

A practical transport case is available for safe storage of the hand-held, including sensing probes and accessories.

[www.itl.ie](http://www.itl.ie)



The Android version of ISA's award-winning new mobile app, InTech Plus is now available. The release significantly broadens automation and control professionals' access to a diverse range of technical and educational content and interactive tools.

It is available for free download through the Google Play app store or the Apple iTunes Store.

## CC-Link IE leads the way to Industry 4

*says John Browett, General Manager of CLPA-Europe*

One might argue that a technology becomes mainstream when politicians begin debating it. The German chancellor, Angela Merkel made a very interesting statement about Industry 4.0 during the national IT Summit that took place in Germany at the end of October.

According to the German chancellor, Industry 4.0 is an opportunity for Germany, and the whole of Europe, to take the lead in connecting digital technologies, instead of constantly trailing behind the United States and China.

Here at the CLPA, we've always thought a little bit of healthy competition does wonders for progress. Over the last couple of years, the concept of Industry 4.0 has inspired many European companies to break the mould when it comes to machine connectivity and intelligent automation. And it doesn't look like the idea will be running out of steam anytime soon; if anything, quite the opposite.

Although many pieces of the Industry 4.0 puzzle are still missing, the encouraging news is that a lot of the necessary technology for implementing the model already exists in much of the manufacturing sector.

Industry 4.0 was one of the major themes of the CLPA's stand at the SPS/IPC/Drives fair in Nuremberg in November 2014r.



### CC-Link IE for Industry 4.0

As we've seen, many of the technologies with Industry 4.0 potential have been around for years. For example, in a smart factory, where machines are able to communicate with other machines, a reliable and deterministic handling of communication data is essential.

Having foreseen this upcoming need, the CLPA announced its one gigabit open industrial Ethernet network, CC-Link IE, as early as 2007. It provides full gigabit communication speeds all the way from field devices to controllers and beyond, enabling maximum productivity throughout all parts of a manufacturing enterprise.

The crucial benefit CC-Link IE delivers to Industry 4.0 applications is bandwidth. The new paradigm is founded on information needing to be accessible in multiple places by multiple devices all in real-time, and therefore you need big "pipes" to make sure it gets to where it is needed, when it is needed. At the moment, CC-Link IE's gigabit bandwidth is the only network available that delivers this kind of performance.

According to independent market research, it's also the fastest growing industrial Ethernet technology. Traditionally popular in Asia, CC-Link IE is quickly proving its worth as a networking solution in the rest of the world. The recent IEC 61158/61784 certification achieved by CC-Link IE Field, further strengthens its position in Europe, helping players like Britain and Germany implement automation solutions in line with the Industry 4.0 philosophy and smart factories.

### Industry collaboration

Having looked at existing technology, it's now time to mention another crucial factor in making Industry 4.0 a viable solution for manufacturers: collaboration. As with any new technology, Industry 4.0 needs to be adopted on a large scale and according to set guidelines and standards.

For this to happen, industry collaboration is crucial. Manufacturers across countries should come together with governments and trade bodies to create a viable and useful framework.

Here at the CLPA, we're growing this mission every day. In fact, one of the surprises we have in store for this year's SPS Drives is the appointment of yet another major corporation to our board of directors. The new addition will join the existing members, including Mitsubishi Electric, Cognex, 3M and Balluff, in developing a global strategy for the CLPA.

We will continue to help companies worldwide implement the next generation of networking technologies and facilitate the transition to intelligent automation and Industry 4.0.

[www.cc-link-news.eu](http://www.cc-link-news.eu)

## Automation Professionals recognised



The ISA Ireland held the annual Honours & Awards ceremony in the Common Room at UCC in early December.

In Picture above from left: Front Row: Mark Hogan, (Post Graduate Award, UL), Clr John Sheehan, (Deputy Lord Mayor Cork City), Clive Doherty, (Pioneer Award, Retired - Pzifers), Alan Bateman, (President ISA Ireland), Liam O'Riordan, (Innovative Project Award, Gillead Sciences).

Back Row: James Kelly, (Degree Award, DIT), Thomas Sheehy,

(Craft Person Award, Cork Training Centre), Robert Laffen, (Individual Innovation Award, LIT), David Twohig, (Innovative Project Award, Gillead Sciences), Eric Higgins, (Bursary).

(pic: Creative Photography)

In the centre of the photograph below is **David Gibson**, recently appointed Head of Sales & Life Sciences Manager – Siemens DF & PD Ireland, with **Aidan Byrne** of Siemen on the left and

### Hassan Kaghazchi

University of Limerick of visiting the Automation Research Centre in Limerick University.



**Paul Nolan** joined VisionID in October 2014 as the national Cognex Product Manager. He has over 11 years' experience in the Automated Identification and Data Capture solution industry. During this time he has gained extensive experience working with world class

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solution providers such as Motorola, Zebra and Honeywell. He was also heavily involved with the specification and implementation of Automatic Labelling systems which included fixed mount barcode scanning-verification.



One of Europe's leading technology experts in machine-to-machine (M2M) and Industrial Internet of Things (IIoT) applications, **Tim Taberner**, has joined B&B Electronics as the global product manager for the company's advanced IoT cellular gateways.



**Instrument TECHNOLOGY** [www.calibrate.ie](http://www.calibrate.ie)

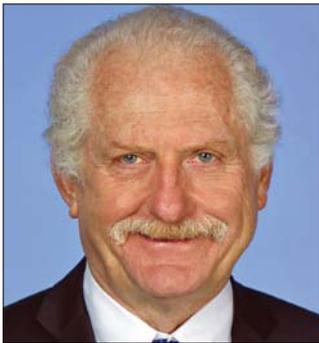


# See anyone you know?



Wight, Stacey will be the first point of contact for customers old and new looking to purchase either ex-stock or custom design load cells.

This happy bunch (above) are the winning Quiz team, Table 13 (Lucky for Some) who were attending the Siemens Partner Conference, in York last October, if you look closely you should recognise some faces from Siemen Ireland, Douglas Control & Automation, and Almeric. Missing from the photograph is a virtual team member, a certain Mr. Knowall Google who was too shy to appear in the picture!



**Dr. James Truchard**, President, CEO and Cofounder of NI, has been named an IEEE Fellow for outstanding leadership and achievement in technology. The IEEE board of directors presents the IEEE Fellow grade to persons with exceptional records of accomplishments in any of the IEEE fields of interest. LCM Systems has appointed **Stacey Bond** as Internal Sales Engineer for its range of load cells and instrumentation. Based at LCM Systems' headquarters in the Isle of



**Peter Whitley** joins Stadium as General manager with over 20 years' experience in the global EMS market including senior commercial and operational roles at Plexus Corp, Jabil Circuit Inc. and SVI. He is an accomplished senior executive with a strong technical and operations background, and multi-sector electronics experience at a global level.

Automation news every day on the Read-out Instrumentation Signpost [read-out.net](http://read-out.net)

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<p><b>SYSTEMS</b></p> <ul style="list-style-type: none"> <li>- Wireless Temperature Monitoring Systems</li> <li>- Weighing Control Systems Including Batching</li> <li>- Alarm Monitoring</li> <li>- Calibration &amp; Maintenance Management System</li> </ul>	<p><b>WEIGHING</b></p> <ul style="list-style-type: none"> <li>- Calibration, Service and Sales</li> <li>- Legal Metrology Service Authorised Verifiers</li> <li>- Analytical/Precision Balances</li> <li>- Bench/Platform Scales</li> <li>- Retail EC Approved</li> <li>- Platform, Check, Counting</li> <li><a href="http://www.scales.ie">www.scales.ie</a></li> </ul>	

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