

Read-out

read-out.net

Ireland's journal of instrumentation, control, and automation

**iStig
inside**

COMPANY NEWS 1,3,4



INSIDE FRONT 2



EVENTS 5



PRODUCTS 6,8,9,10



PEOPLE 10,11

TODAY'S NEWS TODAY!

ON A COMPUTER NEAR YOU
READ-OUT.NET**NEXT ISSUE
DEADLINE
20 DEC 2015**

Announcements made in last few months Alliances, Representation and Slogans!

A number of new agencies, and company changes and celebrations were announced recently effecting both Irish and international automation companies.

Temperature sensors

PJ Bonner have announced that they have partnered with Finnish based SKS Sensors. The SKS Sensors® temperature sensors are manufactured with uncompromising expertise for the use of the process and machine building industries. SKS is a temperature sensor manufacturing pioneer with its 20 years' experience. SKS introduced the first laser welding systems for sensor manufacturing in Finland and launched the first ATEX-approved temperature sensors in 2002. SKS's long-term experience of the branch ensures the even quality and good service for our customers.

Their own manufacturing guarantees the short delivery times also for the application-specific special sensors, e.g. the range of the ATEX and IECEx certified sensors for potentially explosive areas. All demanding precision welding is performed with the laser welding equipment in the SKS production facilities in Hyvinkää, Finland.

PJ Bonner have sold, installed and calibrated temperature sensors for



35 years to all applications and industry, the partnership improves this offering, and brings a high quality custom option to Ireland.

www.pjbonner.com

Strategic Alliance



Intelligent Building Controls have announced a new strategic partnership agreement with Johnson Controls, as exclusive distributors in Ireland and will stock Johnson Controls product range.

This partnership with Johnson Controls will help to leverage their global diversified technology and industrial leading services to customers in more than 150 countries. Johnson Controls will bring their expertise through their business unit, building efficiency, as a leading provider of equipment, controls and services for heating, ventilating, air-conditioning, refrigeration and security systems.

intelcontrols.ie

T&M Integration

**Process
Instruments**

Fluke Corp. is integrating its Raytek, Ircon, and Datapaq product lines into a new brand: Fluke Process Instruments.

All three companies have been part of the Fluke Corporation portfolio for some time.

Raytek, Ircon, and Datapaq branded products include a complete line of rugged and dependable infrared sensors, line scanners, thermal imagers, and temperature profiling systems for use in harsh, high-temperature industrial manufacturing environments.

The company has launched a new website and will operate all related global activities under the new corporate name.

www.flukeprocessinstruments.com

SIEMENS Automation Products - STAHL EEx Lighting, Remote I/O & HMI's

douglas
control & automationNeptune House, Victoria Road, Cork. Tel: 021 4317001 email: info@douglas-esl.ie www.douglas-esl.ie

Strategies for equipment inspection & maintenance

Will Russell, Senior Technician at Ashtead Technology, examines some of the key features of an effective inspection and maintenance strategy.

There can be nothing more frustrating than a vital piece of equipment failing to perform when it is needed most. Not only can this result in infuriating delays and unforeseen expenses, but it can also affect production performance, let down customers and damage a company's reputation. Maintenance is a vitally important component of risk reduction and is most effective when predictive maintenance is employed in conjunction with an effective test and monitoring regime. However, in order for this monitoring to be as effective as possible, it is necessary to utilise high quality test equipment that is itself well-maintained and calibrated. These instruments should be able to perform the latest tests, employing the latest technologies and running the latest software.

Choosing a maintenance strategy

Regular inspection and maintenance does not necessarily guarantee successful avoidance of downtime. It is important that the correct inspection strategy is adopted and that the quality of the inspection work is sufficient to enable proactive maintenance. Monitoring regimes that are either reactive or preventative are more likely to fail. Where it is assumed that equipment will reach a 'wear out' date, preventative maintenance may seek to postpone this, often as part of a conservative maintenance schedule. This time-based approach can be expensive in comparison with a functional and condition-based strategy. Reactive maintenance is very much a 'fail and fix it' approach, that is inherently expensive, due to high repair costs and the resulting costs of downtime.

Best practice when maintaining equipment requires a predictive and proactive strategy, which not only monitors actual equipment condition, but also investigates any drop in performance and corrects this at source. This may mean that organisational procedures may need to be changed. For example, if a specific component is found to perform poorly, re-design or the identification of an alternative source may be necessary. Swiftly and expertly

responding to equipment condition ensures flawless operation, prolongs equipment functionality and improves economic performance.

Instrument strategy

An efficacious and dynamic maintenance strategy is clearly a major contributor to the reduction of risk and therefore to a company's success, but there are a number of questions to be considered:

1. Is the inspection regime designed to identify flaws before they are able to affect performance?
2. Is an appropriate level of technical expertise available to set up and run the latest inspection instrumentation?
3. Is the inspection equipment well maintained, calibrated and ready for deployment?
4. How often is the inspection equipment required?

If the test and inspection equipment is not in frequent use, it often makes sense to rent specific instruments as and when they are required. Rented instruments are also employed when specific technology is required or when an urgent replacement to an in-house instrument is necessary. However, there are numerous other advantages to be gained from instrument hire.

The benefits of renting specialist equipment

The financial advantages of renting are well known; equipment purchase can involve a significant capital cost, particularly for the most advanced inspection instruments, so renting provides an opportunity to only incur operational costs when the technology is required. However, a major advantage of renting is that it provides continual access to the latest equipment. In contrast

instrument purchase locks the technology at that moment in time and precludes access to subsequent developments. Ashtead Technology therefore works closely with leading manufacturers to ensure that its fleet of rental instruments offers the latest, most advanced technology. Often this new equipment is easier to use, faster, with improved reporting and a higher probability of flaw detection. Similarly, the breadth of Ashtead's rental fleet means that customers can select the instrument that is best for their specific job. Rented instruments are delivered at exactly the time and location at which they are required, tested, calibrated and ready for work, so there are no issues with instrument maintenance and storage.

Clearly there are myriad advantages to renting over purchasing specialist equipment, but perhaps the most important is the transferral of responsibility for the product's condition. Renting equipment from a specialist supplier means that not only are instruments cared for by a team of qualified, skilled engineers that have been trained on these specific instruments, but also that expert technical support, advice and guidance are provided. Instruments are constantly evolving, so their maintenance is often best provided by those with specialist training and experience.

Typical test and inspection equipment includes Non-Destructive Testing instruments, Visual Inspection kit including Videoprobes, Borescopes and Robotic Crawler Cameras and Environmental Monitoring equipment such as dust, vapour, and toxic gas detectors, and water quality monitors.

In summary, a clear inspection and maintenance strategy should be designed to avoid downtime and ensure the smooth operation of a plant whilst minimising costs and utilising the latest technology to ensure that problems are identified before they are able to affect production. Ashtead Technology's business is founded in the belief that instrument rental provides an opportunity to achieve this.

www.ashtead-technology.com



New designation for hazardous area.



R. STAHL is introducing “Ex 4.0”, a new distinguishing label for state-of-the-art solutions in explosion protection that ensure maximum versatility of use. Designed for operation in almost all regions, “Ex 4.0” equipment can be integrated into diverse installations and networks. These components and systems provide superior efficiency, smart features, ensure comfortable handling and optimised maintenance.

Much like the “Industry 4.0” and “Industrial Internet of Things” (IIoT) designations, “Ex 4.0” identifies a new generation of high-performance solutions and technologies, highlighting a comprehensive availability of process and diagnostic data from the field. This capability opens up new possibilities for complex analysis and smart responses, e.g. preventive maintenance. Highly flexible monitoring and operating options including location-independent operation via mobile devices or remote access are ensured.

However, “Ex 4.0” covers an even greater scope of features. Applied to a broad variety of different products – luminaires, isolators or remote I/O systems, control boxes, cameras or HMIs –, the label marks the presence of the full range of crucial qualities of future-oriented explosion-protected components. Notably, this means truly global suitability, made possible by the availability of services throughout the world, multiple regional certifications, support for diverse bus systems and communication standards, and an extremely robust mechani-

cal design. Only products toughened for operation in extreme conditions, including severe cold, high humidity, aggressive saltwater-infused atmospheres, constant vibration and other harsh environmental influences, are awarded the “Ex 4.0” label. R. STAHL has been able to ensure that the entire portfolio meets these criteria without compromising safety and availability. All R. STAHL hazardous area technology has therefore earned the “Ex 4.0” designation. Stahl products are marketed in Ireland through **Douglas Controls and Automation**.

www.douglas-esl.ie

Security assured

An ISASecure accredited test lab, exida, has announced that it has certified the Honeywell Experion C300 Controller R410 to the ISASecure® Embedded Device Security Assurance (EDSA) certification.

This controller is Honeywell’s newest firmware version of its field-proven Experion C300 Controller product line. This maintenance of certification for the Experion C300 Controller demonstrates Honeywell’s continued commitment to the ISASecure industrial automation and control system (IACS) cybersecurity conformance scheme.

The C300 controller supports a wide variety of process control situations, including continuous and batch processes and integration with smart field devices, and works across a variety of networks—allowing engineers to address their most demanding process control requirements.

The ISASecure EDSA certification assesses IACS products against the draft IEC 62443-4-2 and IEC 62443-4-1 standards and will be updated when the final standards are fully approved.

www.isasecure.org



Analysis measuring point with Memosens technology

For over 50 years Endress+Hauser has been renowned for its innovations and their great customer benefits. With Memosens we today set the course for future-oriented multi-sensor technology. Measuring points are currently available for pH/ORP, conductivity, dissolved oxygen and chlorine.



Memosens has proven itself in harsh industrial situations

Memosens transmits measured values inductively – and thus contact-free – from the sensor to the cable. Digitalization of the measurement signal in the sensor increase reliability and availability considerably. The measurement system is completely insensitive to ambient conditions. Measuring point data is saved directly in the sensor and allows predictive maintenance. Sensors can easily be calibrated in the measuring laboratory.



Memobase revolutionizes your maintenance strategy

Optimum sensor and data management for all Memosens sensors with Memobase. Central, seamless monitoring and coordination at the laboratory. Reduced maintenance costs and a longer operating life.



Liquiline transmitter with simple operation via the Navigator

Safe measurement thanks to intuitive operation, a single button for turning and pushing. Large display with plain text guidance. Open to all process control and asset management systems.

www.ie.endress.com/memosens

Endress+Hauser (Ireland)
Exchequer House
Embassy Office Park
Kill
Kildare

Tel: 045 989 200
Fax: 045 868 182
info@ie.endress.com
www.ie.endress.com

Endress+Hauser 
People for Process Automation

FOLLOW US



On Twitter

[ReadoutSignpost](#)



On Facebook

[ReadoutSignpost](#)



On LinkedIn

[Read-out Signpost News Group](#)



Readout Registration Form

PLEASE COMPLETE DETAILS

OR CLIP YOUR BUSINESS CARD

FIRST NAME:
SURNAME:
JOB TITLE:
COMPANY:
ADDRESS:

TEL No: **MOBILE** **Fax No:**
E-MAIL ADDRESS:
 FOILSEACHAIN READOUT PUBLICATIONS, CAORAN, BAILE NA HABHANN, CO GALWAY, IRELAND.
 TEL: 087 2663282 • FAX: 091 506872 • E-MAIL: readout@iol.ie

YOUR INDUSTRY (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"/>	APPLICATIONS (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"/>	EMPLOYEE NOS (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"/>

CATEGORIES (Please Tick)

01 Service Engineer <input type="checkbox"/>	Have you access to InterNet? <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
02 Specifier/Consultant <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"/>	Those who do not qualify for free distribution of	
	Read-out will be invoiced at the appropriate rate.	

I WISH TO RECEIVE READOUT EVERY SECOND MONTH:

INITIALS:
DATE:

Co-innovating tomorrow™

Corporate brand slogan

Yokogawa has created a corporate brand slogan to encourage the joint pursuit of activities with its customers to create value and foster growth. The global launch of this new slogan, Co-innovating tomorrow, was September 1, the 100th anniversary of Yokogawa's founding.

The decision to create this new slogan has its origins in dramatic shifts in the company's business environment that are the result of globalisation, the transition to a multipolar world order, and the industry changes that are accompanying the increasing integration of things and information. In response, Yokogawa has drawn up a long-term business framework and formulated a vision statement that reads, Through "Process co-innovation", Yokogawa creates new value with its clients for a brighter future. Yokogawa is now accelerating its efforts to bring about a transformation that will allow the company to sustain growth for another 100 years. To share the essence of this vision statement with stakeholders and encourage all employees to join forces in the pursuit of this initiative, Yokogawa has established the corporate brand slogan of Co-innovating tomorrow.

This concept will encompass the entire range of Yokogawa solutions and will entail a commitment to working with clients to create new value on their behalf.

www.yokogawa.com/eu

Manotherm Limited

The Control Centre

4 Walkinstown Rd.,
Dublin 12.

Tel: 01 4522355 Fax: 01 4516919
email: info@manotherm.ie

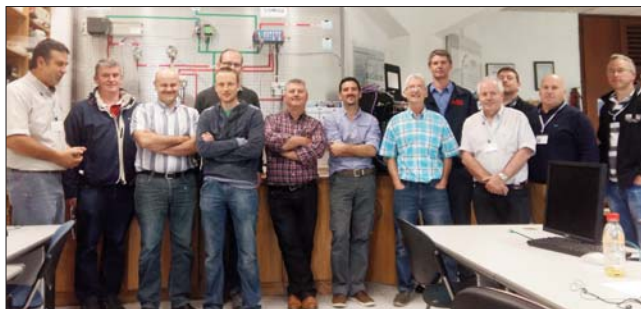


THE CONTROL CENTRE

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

Clóchur/Type Setting: Read-out: 087 2663282
Cló/Printing: O'Sullivan Print: 086 2583053
Dáileadh/Distribution: Sooner Than Later: 01 2844777
Cóipceart/Copyright © 2015 Read-out

PROFIBUS Diagnostics Demo Day



PROFIBUS IRELAND held a one day demo in two sessions on diagnosing PROFIBUS networks using PROCENTEC products. The demo was on portable diagnostic tool Profitrace and continuous monitoring tool Combricks. Over 25 participants from industry participated on the day.

The session on Profitrace covered the basics of PROFIBUS technology followed by the demo of using Profitrace, to identify issues such as missing or additional terminations, shorted or broken lines. Training kits were used to provide the participants with hands on sessions.

Second part of the demo concentrated on continuous monitoring using Combricks. A newly built demo wall consisting of PROFIBUS DP, PROFIBUS PA, and PROFINET was used to highlight the operation of Combricks. The integration of a number of different communications systems such as PROFIBUS DP, PROFIBUS PA, and PROFINET was shown using Combricks' backplane technology. Also included in the demo wall was the use of Fibre optic transmission and use of Profiswitch X5 to enable different transmission speeds on the same PROFIBUS network. The participants had a opportunity to connect remotely to Combricks and see the electrical waveforms of devices, bar graphs, Email notification of faults, amongst others.

www.profibus.ie

oOo

Cill Droichead Abú!



The young women of Celbridge Camogie represented County Kildare in the U14 Camogie tournament in June. "This is the first time in 5 years that Celbridge Camogie have qualified for this National Tournament and we are delighted that Mitsubishi Electric are helping them get there," said Seán Ó Riain, Camogie Coach, Celbridge GAA Club.

Picture shows the team with Seán Ó Riain.

ie3a.mitsubishielectric.com

OPC Technology

MatrikonOPC will be in Dublin in October with the best OPCSI certification program available for engineers, developers and integrators. MatrikonOPC offers a unique OPC training experience only instructors with extensive onsite OPC project expertise can deliver.

- October 6th- 07th, 2015 - OPC Levels 1, & 2 - OPC Integration & Diagnostics
- October 08th, 2015 - OPC Level 3 - Applications and Architectures

Course Benefits:

- Understand OPC specifications including OPC DA
- Setup and configure Windows DCOM security
- Diagnose connectivity issues and solve DCOM problems
- Exchange data through firewalls while complying with network security policies
- Avoid common pitfalls through OPC best practices

www.matrikonopc.com/training/workshops/course-schedule.aspx

oOo

Road-show for Ireland

Following the success of previous events SolutionsPT & Stratus are again teaming up and will bring their Roadshow to the K-Club in Straffen, Co Kildare on the 4th November. Registration for this on-line

solutionspt.com/solutionspt-road-show-2015

PJ|BONNER

Providing Quality Services, Products and Systems Since 1978.

INSTRUMENTATION | WEIGHING

CALIBRATION

- Expert Calibration Service
- ISO9001:2008 Certified
- Nationwide Service
- Traceable Calibrations
- Legal Verification
- Fixed, Full Time Schedules
- Flexible Schedules
- On Demand / Emergency
- Fully Qualified Staff
- Online Certificates & Reports

MAINTENANCE

- I&C Maintenance
- Qualified Instrumentation Technicians
- Fully Documented Support Reporting
- Emergency & Breakdown Resonse Times

COMMISSIONING

- New Plant and Upgrade Commissioning Service
- Full Documentation provided
- Loop Checking
- Bench & Loop Calibration

PRODUCTS

- Instrumentation Sales
- Measurement & Control
- Leading Manufacturers
- Technical Support
- Calibration Prior to Dispatch
- Project Procurement
- Weighing Sales
- Analytical/Precision Scales
- Bench/Platform Scales
- Retail EC Approved
- Platform, Check, Counting
- Loadcells

SYSTEMS

- Wireless Temperature Monitoring Systems
- Weighing Control Systems Including Batching
- Alarm Monitoring
- Calibration & Maintenance Management System



Pharmaceutical | Medical Device | Food & Dairy | Beverage
Manufacturing | Healthcare | Water | Chemical | Retail



PJ. Bonner & Company
Web www.pjbonner.com
Mail sales@pjbonner.com
Phone +353 (0)1 4505050



Control Valve



Johnson Controls' VP1000 pressure independent control valve, lives up to its full potential by saving owners money at the beginning of a project and throughout the life of the system. It saves contractors time and labour. Mechanical engineers can install the valves cheaper and avoid complex sizing at the design stage. The VP1000, available in Ireland through **Intelligent Building Controls**, is a combination of a differential pressure regulator and a regulating valve for flow adjustment. Installation costs are considerably reduced as the valve performs the functions of two valves (balancing and adjustment). To adjust the flow rate, just set the selected value using the adjustment knob. Choosing the suitable valve is easy and fast. Flow rate is the only parameter to be considered.

Intelcom.ie

BACnet Tested and Certified



The EE210 and EE160 transmitters from E+E Elektronik are designed for highly accurate measurement of relative humidity and temperature. Both are now available with a BACnet MS/TP interface for easy integration into a network or bus system for modern building automation.

Unitary digital communication standards in modern building automation allows for easy integration and interaction of devices from different manufacturers. With the BACnet protocol, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has established an internationally recognised network standard for building automation.

These humidity & temperature transmitters have been tested by an accredited BACnet Testing Lab (BTL) for compliance with the global BACnet standard ISO 16484-5. Their full BACnet conformity has been certified by an independent institute. Users can therefore be reassured that the BACnet protocol of the E+E transmitters fully meets the internationally recognised standard.

E+E transmitters, which are marketed in Ireland through **Instrument Technology**, are listed on the official website of the international BACnet association as well as in the certification database of the BACnet Interest Group Europe. As a member of the European BACnet Interest Group (BIG-EU), E+E Elektronik supports the ongoing development and assertion of the BACnet standard in Europe.

www.itl.ie

Metering Pump



The CHEM-PRO® M series diaphragm metering pump, engineered and designed for precision liquid injection in municipal water treatment applications, exceeds industry standards.

Features include NSF 61 listing-

a water treatment must; 200:1 turndown; a large, easy to read LCD screen that displays the pumps' output rate; a 4-20mA output is standard on all models; a robust #316 Stainless Steel pump head cover for added strength; and a comprehensive 3 year warranty.

The unit also features Blue-White's exclusive DiaFlex® Diaphragm. The single piece DiaFlex is manufactured 100% in house of molded PVDF. There is zero delamination or breakdown with DiaFlex.

Optional advanced communications include: Industrial Ethernet, Modbus TCP, ProfiNet, Modbus, and Profibus.

www.blue-white.com

Water & Waste



Emerson Process Management has released the Rosemount® 8750W magnetic flowmeter system for utility, water and wastewater applications. The Rosemount 8750W offers reliability and advanced process insight in an intuitive, easy to use solution specifically designed for utility flow measurement.

The Rosemount 8750W is ideal for water distribution in any process plant, cooling and heating water, water management, influent and effluent flows, wastewater, and desalination, making it an economical solution for nearly any water or utility related application.

From ordinary water applications to more challenging environments such as submergence, reliability is critical to flow measurement. The 8750W ensures reliability through welded coil housing for protection against moisture ingress, a dual compartment

transmitter housing to keep electronics fully isolated from moisture, and a replaceable terminal block enabling easy repair in the field without the need to replace the entire unit.

Intelligent diagnostics help users take advantage of improved installation, maintenance, and process management practices. SMART Meter Verification, grounding and wiring fault detection, and electrode coating detection are available with the Rosemount 8750W. The SMART Meter Verification diagnostic enables calibration in the field without shutting down the process or requiring complicated external equipment.

To simplify use, all meter information is quickly accessed through the easy-to-use Local Operator Interface (LOI), ProLink III, 475 Field Communicator, or AMS Suite predictive software.

www.emersonprocess.com/rosemount8750W

Power Quality



Schneider Electric has announced the launch of its PowerLogic PM8000 series meter. It's a highly accurate, extremely reliable power and energy meter combining accurate three phase energy and power measurements with data logging, power quality analysis and alarms.

Survey data suggests that power quality related financial losses add up to more than €150b annually across the EU. To combat this energy waste, these meters are manufactured on the company's patented ION technology platform, providing a compact and cost-effective solution for energy infrastructure.

to page 8



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 a flow calibration laboratory to your plant. The complete system allows calibrations to be performed close to operating conditions 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/On-site-calibration-services
 Or call Mark Murphy, our Sales Engineer for Service Contracts
 on 045 989 216 or email Mark at mark.murphy@ie.endress.com



Endress+Hauser (Ireland) Ltd. Phone +353 45 989 200
 Exchequer House, Fax +353 45 868 182
 Embassy Office Park, info@ie.endress.com
 Kill, Co. Kildare, www.ie.endress.com
 Ireland

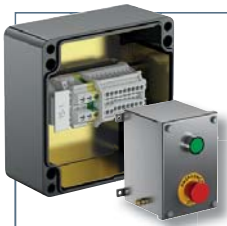
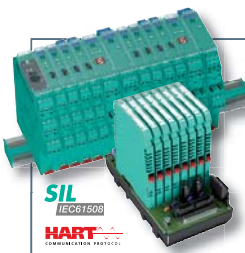
Endress+Hauser 
 People for Process Automation



FOR A COMPLETE RANGE OF
 HAZARDOUS AREA SOLUTIONS



**Intrinsic Safety Isolators • Zener Barriers • Zone 1&2 Remote I/O
 Fieldbus • Exe Enclosures • Exd Control Panels • Ex Lighting
 Purge Solutions • Zone 1 & 2 HMI's PC's**



Meath Office: 041 9884288 • Cork Office: 021 4883798 • www.pepperl-fuchs.co.uk

Native support for StruxureWare Power Monitoring Expert and PowerSCADA Expert software applications lets clients realise the full potential of the PowerLogic PM8000 series through enhanced reporting and data visualisation tools. It is ideal for low to high voltage applications and particularly in industrial and critical power facilities.

“The PM8000 is the latest addition of game-changing energy management products to the PowerLogic range and typifies Schneider Electric’s focus on building innovative solutions to customer energy challenges. The PM8000 is the new power monitoring workhorse, making power quality easier to understand, unifying metering and logging of all utilities, and making data both fast to access and more actionable for organisations looking to maximise the value from their energy expenditure,” said **Pat O’Neill**, Business Development Power Monitoring Manager with Schneider.

www.schneider-electric.com/ie

Combustion efficiency



City Technology, a Honeywell company, reports increasing customer interest in its new emissions sensors ahead of the upcoming heating season in response to performance improvements in combustion efficiency and flue gas analysis. New Premium 5 Series sensors for high-end flue gas analysis include the 50xLL long life oxygen sensor and ASF+ high range H₂ compensated CO sensor, both conforming to EN50379-2 compliance. Highlight features include 50xLL’s ability to operate for the whole life of an analyser,

while reducing field failures and servicing costs through enhanced stability. The ASF+ CO sensor can monitor up to 20,000ppm, removing the need for a second sensor.

The 4 Series sensors for combustion efficiency in installation and service applications include the 40xLL long life oxygen sensor and 4F & 4MF carbon monoxide sensors. The 40xLL long life O₂ sensor is designed to match the lifetime of the average analyser, whilst the 4F and 4MF CO sensors offer low and high range measurements and robust internal acid gas filters to ensure operational life in demanding emissions environments.

John Warburton, Strategic Marketing Manager for City Technology comments: *“Our new emissions sensors provide the ideal solution for the upcoming heating season, where servicing and appliance testing demands reach their peak. We have incorporated advanced component design, ultra-resistant materials, high activity electrodes and high capacity filters ensuring repeatability, stability and accuracy as well as fastest response times. These aspects ensure that engineers using our sensors can maximise their field efficiency, while also reducing ongoing monitoring costs.”*

www.citytech.com

Safe Alarms



R. STAHL’s new ‘Yodalex Super Series’, supplied through **Douglas Controls & Automation**, comprises a suite of signalling devices designed for use in hazardous areas and harsh environments. The units are

equipped with a lightweight GRP “Ex d” flameproof enclosure which provides a strong, robust, and safe housing designed to withstand the environmental demands of extreme temperatures and sealed against water and dust ingress according to IP66 and IP67. The Super Series is ATEX and IECEx-approved for use in zones 1, 21 and 2, 22 for gas and dust atmospheres. Additional global onshore and maritime approvals (GL, CUTR, INMETRO, PESO) will follow shortly, enabling operation across many industries throughout the world.

The omnidirectional horn featured on the YL6S and YA6S units has a maximum sound output of 110 dB at one meter. Its patented product design, unique to the Yodalex range, disperses sound radially outwards, providing excellent sound coverage, which ensures maximum safety within the designated area. A further feature of the sounder is that the user can control the release of a sound tone over three individual stages, allowing a system for managing test and real time emergency procedures. The user can individually select the tone for each alarm stage from 32 internationally recognised frequencies. The FL6S beacon is fitted with a 5 Joule Xenon strobe. When used in conjunction with the new lens designed specifically for the Super Series, it produces a 49 effective candela flash at a rate of 1 Hz. Whether used individually or as part of the combination unit, the beacon is available with a choice of seven different lens colours including magenta. The YL6S combines all of the features present in both the YA6S and FL6S, housed within a single enclosure. This unique, light-weight and cost-effective design reduces the amount of field cables and installation time compared to individual devices.

The units are suitable for an extremely wide operational temperature range of -55 °C to +70 °C. With voltage options starting at 24 V DC, R. STAHL also provides variants suitable for 48 V DC and 115 or 230 V AC power supplies. All mechanical fixings including the lens guard are manufactured from 316/V4A stainless steel, ensuring optimal resistance to salt water in coastal, offshore or marine applications. The release of the Super Series completes the new line of GRP signalling equipment offered by R. STAHL that also includes the YA90 directional sounder, the MCP manual interface, and the FX15 beacon. Together, these robust products provide customers with the complete range of audible and visual signalling as well as manual interface equipment for ATEX and IECEx hazardous zones 1, 21, 2, 22 in extreme conditions and aggressive environments.

www.douglas-esl.ie

Pressure added

Since the release of the first compact pressure transmitter in 2012, KROHNE, marketed in Ireland through **DWN Instrumentation** (Dublin & Cork), has been continuously working on its own pressure portfolio. A complete portfolio for process pressure, hydrostatic pressure and differential pressure was unveiled at this year’s AICHEM. The new OPTIBAR series includes a variety of pressure transmitters with ceramic or metallic measuring cells, application specific diaphragm seals, primary elements and accessories to equip flow, level or process pressure applications – from single transmitter to complete measuring points. Starting with transmitters, the portfolio holds pressure transmitters with ceramic or metallic measuring cells for standard applications: The PC5060 with capacitive ceramic

To page 9

from page 8

measuring cell is aimed at all applications up to +100 bar / +1450 psi gauge. PM5060 with metallic measuring cell and fully welded process connection is used for high pressures up to +1000 bar / +14504 psi gauge, aseptic processes, and, in combination with diaphragm seals, for high temperature or corrosive applications. Compact and ultra-compact transmitters, e.g. for OEM, are also available.

The differential pressure (DP) transmitter OPTIBAR DP7060 marks the centre of the transmitter range. It can be used for either flow, level or process pressure applications up to 420 bar / 6091 psi. The integrated absolute pressure measurement eliminates the need for an additional sensor in flow and level applications, e.g. to measure head pressure in closed/pressurised vessels. Smallest measuring span of 10

mbar / 0.145 psi gauge is ideal for applications with small turndown ratios, and quick step response times allow for use e.g. with pulsating flows.



All OPTIBAR PC, PM and DP transmitters are based on a modular concept and share interchangeable housings, electronics, display and adjustment modules. Hereby, different requirements such as intrinsically safe / explosion proof concepts, or 4...20 mA HART 7 / HART SIL 2/3, FOUNDATION fieldbus, PROFIBUS PA communication options can be met with just one platform.

For DP volume or mass flow measurement of liquids, gases or steam, a wide portfolio from primary elements to complete measuring points from one source with matched, pre-configured components is available. Medium temperatures -200/+1000°C process pressure up to 420 bar and line sizes from DN25-12000 can be covered. As primary elements, averaging pitot tubes are available as a simple, cost-efficient and long-term stable alternative next to orifice plates. Pitot tubes are especially suitable for applications that require a low pressure loss, retrofit of existing pipes with a flow measurement, line sizes >DN 300, or low pressure gases. The portfolio also includes wet-calibrated meter runs for small line sizes and low measurement uncertainty, a flow computer, optional pressure and temperature compensation as

well as accessories for safe and easy installation of pressure transmitters in the process such as valves and manifolds, condensate pots, or general accessories. All DP flow instruments can be wet calibrated up to DN 3000.

Hydrostatic pressure is used to measure liquid level, density or liquid-liquid-interface in open and pressurised vessels of any size. The OPTIBAR modular product line offers a complete portfolio of pressure and DP transmitters, diaphragm seals and accessories for measurement of corrosive and non-corrosive liquids and slurries up to 450°C and 420 bar. As a simple level measurement solution for wells or tanks, submersible probes are available. A large portfolio of process connections, including different hygienic process connections for a hygienic, dead

to page 10

VP100 Series

Pressure Independent Control Valves

- Compact design
- No Kvs Calculation
- No Valve Authority Calculating
- Combines a differential pressure
- Regulator with a regulating valve
- Reduced installation costs due to two-in-one valve functioning - balancing & flow adjustment
- Simple adjustable flow with actuator attached
- Choose valve based on flow rate parameter - for ease of design
- Sizes DN15 to DN150 available



P: +353 (0)1 457 5421 | E: sales@intelcontrols.com



Products from page 9

zone-free installation, covers the requirements of various industries.

www.dwn.ie

Valve for process quality



Festo has launched a new proportional valve VPPX with an external sensor input, and offers users improved performance, maximum flexibility and excellent process quality.

The valve is a proportional integral derivative (PID) controller ideal for use in industrial control systems found in process, packaging and water and wastewater applications. The incorporation of an external sensor, means friction, hysteresis and leakage are effectively cancelled out which enables engineers to build faster and more accurate machines and systems, while enhancing the quality and efficiency of their processes. Significant time savings can also be made, even in simple pressure regulation, with the sensor integrated into the system.

The VPPX valve is easily programmable using Festo Configuration Tools (FCT) and the user can select the control circuit (internal-external), the control behaviour (direct-inverted), the setpoint value, actual value and sensor signals (current/voltage). Previously, users had to specify whether the control signals were provided as current or voltage when designing the system. However, now users have increased flexibility as they can decide at the last minute how the signal should be transferred to the control system.

The setpoint value, initial pressure and external sensor's signal can be viewed in real time on the oscilloscope, and

parameters can be easily adjusted for the optimum control characteristics, with set values recorded for future use.

The proportional valve VPPX is ideal for use in many applications, for example, it can be used as a level controller in bottling systems, to control reservoirs, or for powders and granules with the aid of a pinch valve. The valve is also suitable for use in simple positioning tasks in process automation, for speed adjustment in pneumatic motors, and for pressure control with internal or external sensor, force, torque, vacuum and flow control.

www.festo.ie

Monitoring and Control



Red Lion Controls, marketed in Ireland by **Instrument Technology**, has announced its Sixnet® series RAM® industrial cellular RTUs now provide high-speed global 4G LTE network support for use with many cellular carriers worldwide.

The addition of global 4G LTE network support to Red Lion's RAM industrial cellular RTUs enable customers to easily connect, monitor and control high-bandwidth applications in markets including oil and gas, water/wastewater, factory automation, utility and transportation. As manufacturing and industrial organisations continue to migrate from fixed legacy infrastructures to scalable high-performance networks, comprehensive solutions are needed to serve as the critical communication platform between facilities and equipment in many locations. "More and more industrial organisations worldwide rely on

cellular communications for increased data speeds, expansive coverage and reliable operation," said **Paul Bunnell**, product manager at Red Lion Controls. "Given the size and scope of many of today's industrial operations – with remote sites in various locations and countries – customers are demanding easy-to-deploy solutions that can operate reliably regard-less of geography. This is why our high-speed RAM 4G LTE cellular RTUs provide a secure all-in-one platform that seamlessly integrates with existing equipment to enable critical remote monitoring and control."

The RAM platform features a powerful built-in event engine that can easily be configured using an intuitive web-based interface to trigger actions when

pre-defined alarm values are met. For example, if a tank level is too high or valve pressure out of range, the RAM event engine will not only cycle a relay to stop a pump or open a valve, but can also send SMS text messages to alert when actions should be taken. This helps customers make critical decisions.

These units combine optional I/O and Wi-Fi with active GPS and multiple serial and Ethernet ports to securely monitor and control remote devices over 4G LTE cellular networks. By providing data visibility, control and real-time notifications on field-deployed equipment and processes, the RAM platform enables organisations to take advantage of the benefits associated with the Industrial Internet of Things (IIoT).

www.itl.ie

Automation thought leader calls!



When somebody of eminence in automation visits our neck of the woods we do try to meet up and make them welcome. I guess it's an Irish thing!

Recently Read-out met the man and sat down and chatted face-to-face with the irrepressible **Jim Pinto**. And we have a photo above, because, as somebody said "If there isn't a picture it hasn't happened!"

So how to describe Jim Pinto's impact! **Dick Morley** (another automation thought leader), said of his writing, "When you read Jim, you have the feeling that you're looking through a telescope's magnifying end. With Jim you get to use the telescope with the microscope in the right direction: you see clearer, and you see things you cannot see with the naked eye."

This I think is the essence of the Jim Pinto, the "Poet Laureate of Automation!" And it is nowhere more evident than in his poetry.

It is funny, but it is serious!

Thanks for the fun Jim, and may your list of bucket trips never be exhausted! And may you never cease to be irreverent but always full of fun and laughter!

Jimpinto.com

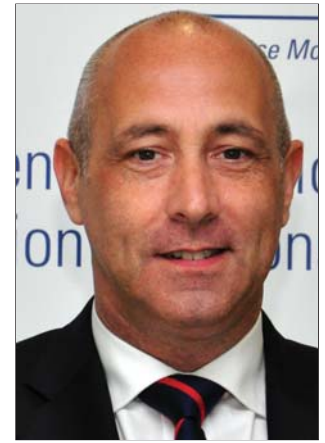
Technical Meeting

The Ireland Section of the International Society of Automation will hosted a technical presentation given by **Hal Software's** Cormac Garvey in September entitled: *Prototyping a Batch Process Control System using ISA-S88 and ISA-S95.*

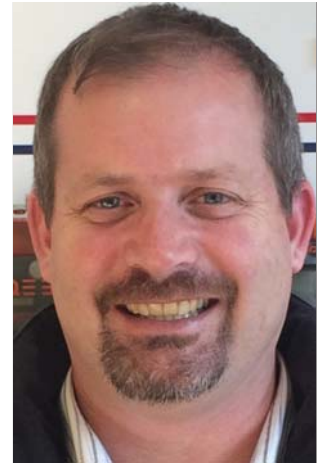


Top LtoR: **Aidan Smith**, DePuy, **Iain Logie**, Emerson, **Kieran Murphy**, Emerson, **Santosh Joshi**, Zenith Technologies and **Sarang Joshi**, Masters Student UCC.

Bottom LtoR: **Wayne Bursey**, Siemens, ISA Ireland Section Technical Program Chairman, **Cormac Garvey**, Presenter, Hal Software, **Alan Bateman**, Janssen, ISA Ireland Section President, **Michael Darcy**, Hal Software



Stewart Dowsett has been appointed Key Account Manager for Britain, Ireland and Scandinavia with Kollmorgan. He replaces **Ian Young** who is retiring.



Rich Costa has been appointed Sales and Marketing Manager with Intelligent Building Controls, effective 1st October. Rich has over 30 years' experience in distribution and 9 years' experience with BEMS systems. Rich is currently a certified Engineer in Trend Controls BeMS and Dristeen humidification. Rich has been involved in projects with Boston Scientific and Abbott Vascular where running cost were reduced by over 55%.



Quantitech has announced the appointment of **Craig Day** as Product Specialist to support the introduction of tuneable diode laser absorption spectroscopy (TDLAS) technologies in the British & Irish markets.

SONIC-PRO®
HYBRID ULTRASONIC FLOWMETER

- Smart instrumentation.
- Works with clean or dirty fluids.
- Non-invasive clamp-on transducers.
- "Smart" external communications.
- Selectable doppler or transit time.
- Ships complete with carrying case.

Available with **T-TRACK MOUNTING SYSTEM**

- Fast and easy sensor installation.
- NEMA 4X quick disconnects.

IP66
NEMA 4X WASH-DOWN
CE

Blue-White
5300 Business Drive, Huntington Beach, CA 92649 USA
714-893-8529 • fax: 714-894-9492 • sales@blue-white.com
www.blue-white.com


Daily Automation News
on line at
read-out.net

Instrument TECHNOLOGY www.calibrate.ie



Event response can't be left to chance.
My operators need the confidence that they
are taking the right action – every time.

YOU CAN DO THAT

 **SYNCADE** **Make every operator your best operator.** Emerson helps operators meet production goals by ensuring work is done accurately and consistently. Syncade Suite combines document, equipment, and materials management into electronic work procedures to create an optimised manufacturing environment. By implementing Syncade as your MES, you integrate plant-floor data with procedural processes to help your operators do their best work. Visit www.EmersonProcess.com/Syncade to learn more.



EMERSON[™]
Process Management

The Emerson logo is a trademark and a service mark of Emerson Electric Co. © 2015 Emerson Electric Co.

EMERSON. CONSIDER IT SOLVED.™