# AFRICA AUTOMATION FAIR 2015

showcasing industrial control technologies

# FAIR PREVIEW

SIEMENS

Scan to explore the future of flow measurement

# Because size and safety matter

## SITRANS FC430 – the market's most compact Coriolis solution

siemens.com/fc430

Building on a strong tradition of innovative thinking, Siemens has designed the next generation of Coriolis flowmeters for excellence in performance, safety and user-friendliness: the SITRANS FC430.

This digitally based flow solution features market-leading compactness, very high accuracy of 0.1%, low pressure loss, extremely stable zero point and best-in-class data update with 100 Hz high-speed signal transfer.

Unique support tools provide direct access to all operational and functional data, certificates and audit trails. The SITRANS FC430 is amongst the first Coriolis flowmeters to offer SIL 3 certification on the system, meeting the highest standards of safety and reliability.

With the SITRANS FC430, process optimization has never been easier – or more innovative.

- **SensorFlash®** – a micro SD card with backup data, settings, certificates and audit trails uploadable to any PC.
- **Robust Sensor Frame** – with high resistance to process noise and vibrations for excellent 0.1% accuracy.

visit us at:

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www.africaautomationfair.com

Answers for industry.

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the number one meeting place for smart people and smart, innovative process control, automation, instrumentation and information technologies

# Message from the organiser

The new and improved face of Process Expo Africa will soon open its doors for trade, and what an exciting journey the planning and preparation has been!

Since its launch to vendors in our industry in September 2013, this trade fair has never seen the likes of such commitment, support, enthusiasm and passion. Our collective aim: To host a world-class technology event of international standards, dedicated to showcasing cutting edge solutions to buyers within the industrial control and automation technology arena.

Together, the Africa Automation Fair 2015 exhibitors and organisers have not only managed to put together an event that competes in product, solution-representation and professional standards with similar trade fairs world-wide, but is also now officially the largest of its kind in the southern hemisphere.

With over 6000 $m^2$ of display space, workshop and presentation areas, and over 2000 individuals representing close on 100 organisations preparing for the event, you cannot afford to miss Africa Automation Fair this year from 5 – 7 May.

I urge you to encourage colleagues and fellow professionals in your work space and networking circles to visit and enjoy the many benefits of consulting with leading industrial suppliers, their products and solutions all under one roof.

By visiting Africa Automation Fair you also stand a chance to win a trip to either the SPS Drives Technology Fair, taking place in Nuremberg, Germany in November this year, or to the Hannover Fair, Germany in April 2016 – whichever the winner chooses. To qualify, visitors need to register online at www.africaautomationfair.com, as well as attend the trade fair on any of the show days.

Visitors are all encouraged to register online before Friday 1 May 2015 to qualify for free entry and to avoid the late registration fee of R100 p/p.

In addition, the ***FIRST*** Robotics Africa Open Championships will be hosted alongside AAF 2015. We look forward to welcoming 84 teams from around the globe (some 750 youngsters between the ages of 9 and 16, most of whom will be experiencing a first time visit to South Africa), to compete for the title of Open Africa Robotics Champions.

***FIRST*** Robotics was founded by inventor Dean Kamen to spark and inspire young people's interest and participation in science and technology, encouraging thousands of the world's young future engineers and innovators to explore and understand the world of robotics and automation.

Looking for true automation & control solutions? Don't look harder, look smarter.

Join us! Africa Automation Fair 2015 will be the number one meeting place for smart people and smart, innovative process control, automation, instrumentation and information technologies.

Mark 5 – 7 May in your diaries now!

Industry Regards
Hanli Kritzinger

## View the full Preview online

Due to the overwhelming interest we received from exhibitors we have not been able to include all the information in the printed version of the Preview due to space constraints. We have ensured that all the exhibitors who sent submissions appear at least once in the printed version, and the remaining information is hosted in a full online set of PDFs that can be viewed at: **http://instrumentation.co.za/aafpreview2015**

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# List of Exhibitors

| | |
|---|---|
| ACDC Dynamics | Stand F3 |
| Adriatic Power | Stand E40 |
| Adroit Technologies | Stand C1 |
| Afrilek | Stand O1 |
| Allpronix | Stand A1 |
| Ansyco | Stand B29 |
| ATI Systems | Stand E7 |
| Atlanta Instruments | Stand B30 |
| Autonics | Stand E4 |
| Beckhoff Automation | Stand B23 |
| Bürkert Contromatic | Stand C12 |
| Choice Decisions | Stand D27 |
| CPI Technologies / Molex | Stand E24 |
| Dessoft | Stand D30 |
| EA Instruments | Stand B3 |
| EE Publishers | Stand E10 |
| Electromechanica | Stand E37 |
| Elemental Analytics | Stand B2 |
| Elen Enclosures | Stand E14 |
| Endress+Hauser | Stand D33 |
| EP Normand | Stand E9 |
| Extech Safety Systems | Stand B21 |
| FCE Technical Services | Stand D31 |
| Festo | Stand C29 |
| First Robotics | Stand F6 |
| Fluke by Comtest | Stand D13 |
| Frontline Controls | Stand E11 |
| Gemü Valves | Stand D12 |
| Helukabel SA | Stand C9 |
| Honeywell SA | Stand B1 |
| Industrial Data Xchange (IDX) | Stand A5 |
| ifm Electronic | Stand D1 |
| Inher SA | Stand A4 |
| Innomatic | Stand A12 |
| Inova Automation | Stand F1 |
| Instrotech | Stand E12 |
| Karma Sensors | Stand B6 |
| Krohne SA | Stand E16 |
| KVM Tech | Stand B19 |
| Lapp Southern Africa | Stand D29 |
| Limit Africa | Stand A14 |
| Mecosa | Stand D16 |
| Mimic Components | Stand D15 |
| Oculus | Stand C24 |
| OIH | Stand E2 |
| Omron | Stand D45 |
| Pepperl + Fuchs SA | Stand E41 |
| Phambili Interface | Stand A7 |
| Phoenix Contact | Stand E30 |
| Pinnacle Instruments | Stand E35 |
| Pneumax SA | Stand D44 |
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| R&C Instrumentation | Stand B18 |
| Rittal & Eplan SA | Stand D21 |
| RJ Connect | Stand C4 |
| Rockwell Automation | Stand E27 |
| SAIMC | Stand C8 |
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| Stock Electronics | Stand D10 |
| Tabateq | Stand D18 |
| Technews Publishing | Stand C11 |
| Thermo Fisher Scientific | Stand C20 |
| Throughput Technologies | Stand E23 |
| Transducer Technology | Stand A10 |
| Unitronics | Stand D11 |
| Vega Group | Stand E1 |
| Vepac Electronics | Stand C3 |
| Westplex | Stand A13 |
| Wika Instruments | Stand B4 |
| Wonderware Southern Africa | Stand B16 |
| Yokogawa | Stand C25, D39 |

# AFRICA AUTOMATION FAIR 2015

showcasing industrial control technologies

## The largest, most comprehensive showcase of Industrial Control Technologies of its kind in the Southern Hemisphere!

**Dates:** 5-7 May 2015
**Venue:** The Dome @ Northgate
**Times:** 09:00 - 16:00 daily

Endorsed by:

SAIMC
PROGRESS BY CONTROL

Incorporating Process Expo Africa

## FIRST® Open Africa Championships

**FIRST® LEGO LEAGUE (ages 9 -16yrs) and FIRST® Tech Challenge (ages 12 - 18yrs) to be hosted alongside Africa Automation Fair 2015!!**

**Taking up close to 2000m² at the The Dome, this major event will not only attract huge local and international interest, but also showcase the amazing world of Automation and Robotics to our youth and future engineers and innovators.**

## Win a trip to the SPS Drives Fair 2015 or Hannover Fair 2016 in Germany!

Just follow these 2 easy steps to qualify:

STEP 1 - Register online. Your name will automatically be entered into the draw
STEP 2 - Make sure to attend the fair on any of the 3 show days to qualify

* Terms and Conditions Apply

## For more info & to register, visit www.africaautomationfair.com

**Online registration is FREE of charge. Late / on site registration at the fair will be charged at R100.00 per person**

# FTC and FLL Open Africa Championships

FTC

## 5 May 2015 Pre-event

| Time | Teams – Games | Teams – Judging | Judges | Referees |
|---|---|---|---|---|
| 7:00 – 7:30 | Team check-in and set-up | Judges briefing | | |
| 7:30 – 9:15 | Team Judging: Hardware inspection, Software inspection Field inspection, Judges interview | Team interviews | | |
| 9:15 – 9:45 | Opening ceremony | | | |
| 9:45 – 14:00 | Qualifying matches | Team observation | | |
| 14:00 – 14:15 | Alliance selection | | | |
| 14:15 – 14:45 | Semi-finals | | | |
| 14:00 – 15:15 | | Award deliberation Award scripts | | |
| 14:45 – 15:15 | Finals | | | |
| 15:15 – 16:00 | Closing ceremony | | | |

FLL

| | | | | |
|---|---|---|---|---|
| 16:00 – 17:00 | Team registration, Pit area set-up | | | |
| 17:00 – 19:00 | Opening ceremony | | | |

## 6 May 2015 Overall programme – day 1

| Time | Teams – Games | Teams – Judging | Judges | Referees |
|---|---|---|---|---|
| 8:00 – 8:30 | Coaches meeting (main area) | | Judges briefing | Coaches meeting (main area) |
| 8:30 – 9:00 | Prepare for games and judging | | Prepare for judging | Prepare for practice rounds |
| 9:00 – 10:00 | Games – Pool A practice round (4 – > 4 – every 5 min) | | | Games – Pool A practice round (4 – > 4 – every 5 min) |
| 9:00 – 12:00 | | Judging Pool B Rooms 1 – 7 | Judging Pool B Rooms 1 – 7 | |
| 11:00 – 12:00 | Games – Pool A challenge round 1 | | | Games – Pool A challenge round 1 |
| 12:00 – 15:15 | | Judging Pool A Rooms 1 – 7 | Judging Pool A Rooms 1 – 7 | |
| 13:00 – 14:00 | Games – Pool B practice round | | | Games – Pool B practice round |
| 15:00 – 16:00 | Games – Pool B challenge round 1 | | | Games – Pool B challenge round 1 |
| 15:15 – 16:15 | | | Finalise room rubrics Room rankings | |
| 17:00 – 19:00 | Fun event | | | |

## 7 May 2015 Overall programme – day 2

| Time | Teams – Games | Teams – Judging | Judges | Referees |
|---|---|---|---|---|
| 8:00 – 9:00 | Pits open | | | Table set-up |
| 8:00 – 8:30 | | Announcement of call-back teams | Announcement of call-back teams | |
| 8:30 – 11:00 | | Call-back sessions | Call-back sessions | |
| 9:00 – 10:45 | Games – Challenge round 2 | | | Games – Challenge round 2 |
| 11:00 – 12:15 | | | Judge area deliberations Final rankings | |
| 11:15 – 13:00 | Games – Challenge round 3 | | | Games – Challenge round 3 |
| 12:15 – 13:00 | | | Lunch | |
| 13:00 – 14:00 | Lunch | | | |
| 13:00 – 15:00 | | | Final deliberations and awards | |
| 13:00 – 13:15 | | | | All scores available |
| 14:00 – 15:00 | Alliance activity | | | |
| 15:00 – 16:00 | Pit dismantling | | | |
| 15:00 – 15:45 | | | Finalise scripts | |
| 15:45 – 16:00 | | | Closing ceremony prep | |
| 16:00 – 18:00 | Closing ceremony | | | |

# *FIRST* Robotics Africa Championships

The *FIRST* Robotics Open Africa Championships competition is being hosted alongside Africa Automation Fair, creating an opportunity for our future engineers and innovators to display their talent and passion for robotics. This is a first for Africa, with 84 local and international teams participating.

Founded in 1989 by American inventor and entrepreneur Dean Kamen, *FIRST* (for inspiration and recognition of science and technology) is an international organisation that aims to inspire young people to be science and technology leaders by engaging them in exciting mentor-based programs that build science, engineering and technology skills, inspire innovation and foster life skills such as self-confidence, communication and leadership. The building blocks are Lego. This non-profit charity has led thousands of children across the globe to explore the world of robotics and automation.

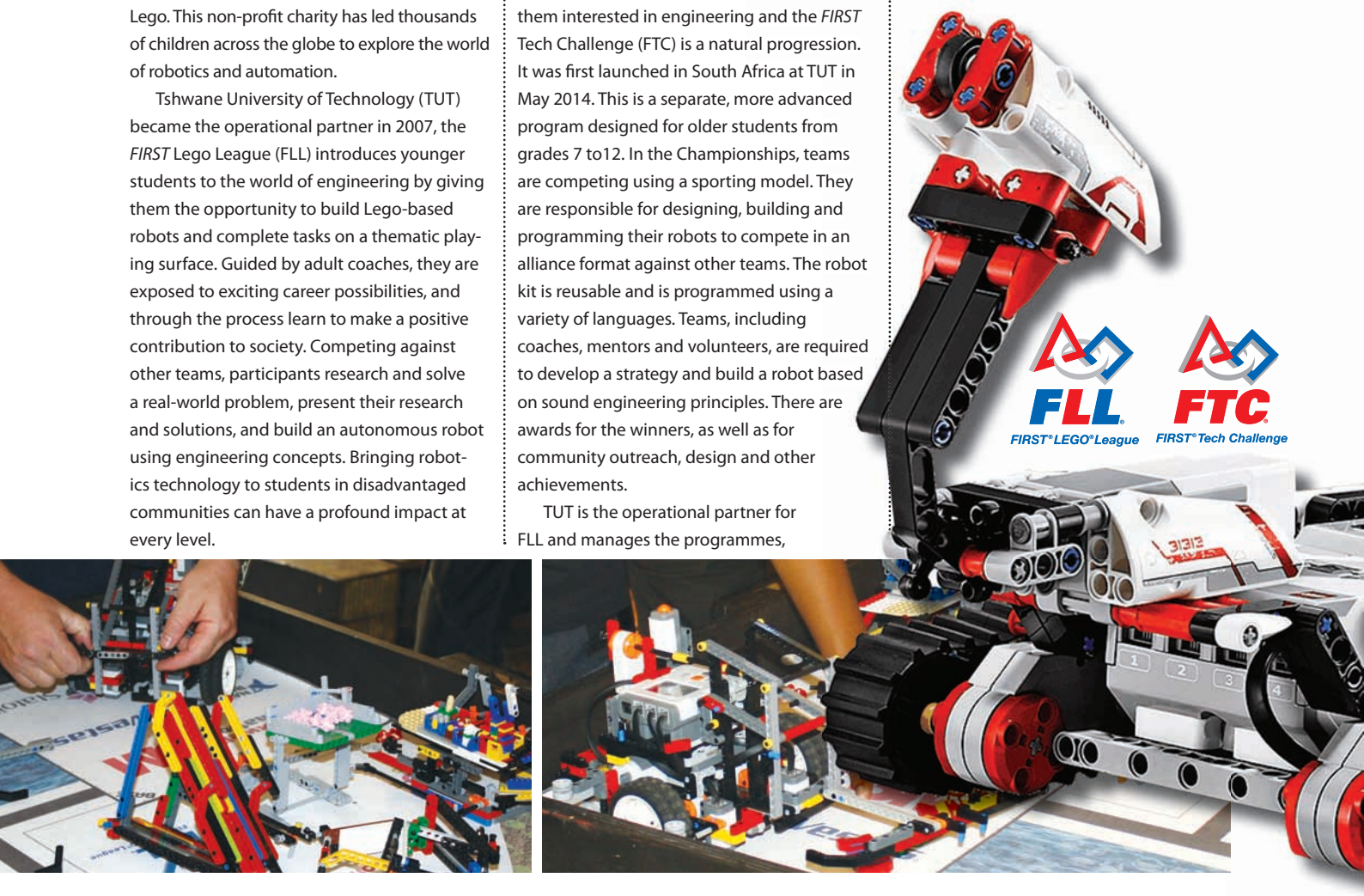
Tshwane University of Technology (TUT) became the operational partner in 2007, the *FIRST* Lego League (FLL) introduces younger students to the world of engineering by giving them the opportunity to build Lego-based robots and complete tasks on a thematic playing surface. Guided by adult coaches, they are exposed to exciting career possibilities, and through the process learn to make a positive contribution to society. Competing against other teams, participants research and solve a real-world problem, present their research and solutions, and build an autonomous robot using engineering concepts. Bringing robotics technology to students in disadvantaged communities can have a profound impact at every level.

The FLL Championship competition involves teams of children from 9 to 16 years old from all over the world. They build, program and test an autonomous robot using Lego Mindstorms technology. The robot must complete a series of tasks related to innovative thinking. These include pushing a lever to open a door to learning; moving an idea outside of the box; loading a model with knowledge; and community learning with skill loops. The cornerstone of this experience is *FIRST* Lego League's set of core values, which emphasises accepting contributions by others, friendly competition, learning and community involvement.

Once primary school children outgrow the FLL they need a bigger challenge to keep them interested in engineering and the *FIRST* Tech Challenge (FTC) is a natural progression. It was first launched in South Africa at TUT in May 2014. This is a separate, more advanced program designed for older students from grades 7 to12. In the Championships, teams are competing using a sporting model. They are responsible for designing, building and programming their robots to compete in an alliance format against other teams. The robot kit is reusable and is programmed using a variety of languages. Teams, including coaches, mentors and volunteers, are required to develop a strategy and build a robot based on sound engineering principles. There are awards for the winners, as well as for community outreach, design and other achievements.

TUT is the operational partner for FLL and manages the programmes, sponsorships and donations. *FIRST* Robotics is calling on companies within the automation industry to contribute to this exciting robotics challenge by sponsoring and mentoring teams or volunteering time and expertise to guide the youngsters. Sponsorships are needed for teams, tournaments, trophies and operational costs. Sponsors enjoy maximum exposure on all the *FIRST* Robotics websites, publications, media as well as at tournaments. An excellent preview video can be viewed at http://tinyurl.com/kt6y27l. Visit Africa Automation Fair to see these talented young people in action.

***For more information contact Johannes de Vries, Tshwane University of Technology, +27 (0)12 382 4191, devriesj@tut.ac.za***



## Society for Automation, Instrumentation, Measurement and Control

The Society for Automation, Instrumentation, Measurement and Control (SAIMC) is committed to advancing standards in the field of measurement and control and creating awareness about engineering amongst young people. It recently established SABS TC 165 to assist with controlling standards in the industry. Visit Stand C8 to enquire about membership, interact with the knowledgeable SAIMC team about industry issues or obtain assistance in applying for professional registration.

***For more information contact SAIMC, 086 107 2462, admin@saimc.co.za, www.saimc.co.za***

## Yokogawa celebrates 100 years

Yokogawa is launching a new version of its flagship distributor control system, the Centum VP R6, as well as the FN110 multi-protocol field wireless communication module device. On top of this the company is celebrating 100 years of contributing to society. Join Yokogawa at Stand C25, D39 any morning at 12h00 pm for a cake-cutting ceremony and some cup-cakes. Yokogawa is also offering a 10% discount on Yokogawa training courses to customers selecting Yokogawa as the exhibitor inviting them to AAF 2015 when completing the Visitor Registration page on the AAF 2015 website.

***For more information contact Christie Cronje, Yokogawa, +27 (0)11 831 6300, christie.cronje@za.yokogawa.com, www.yokogawa.com/za***

## Controllers for continuous level or volume measurement

The Siemens Sitrans LUT400 controllers are compact, single point, long range ultrasonic controllers for continuous level or volume measurement of liquids, slurries and solids and high accuracy monitoring of open channel flow.

They come in three different models, depending on the application, level of performance and functionality required. Key applications include wet wells, reservoirs, flumes or weirs, chemical storage, liquid storage, hoppers, crusher bins and dry solids storage. Visit Stands B15, C14, C16 and D23 to find out more about the features of these controllers.

***For more information contact Keshin Govender, Siemens Southern Africa, +27 (0)11 652 2412, keshin.govender@siemens.com, www.siemens.co.za***

## A new industry guide

In response to a growing need in the market, Technews Publishing is bringing out the *Technews Industry Guide: Maintenance, Reliability & Asset Optimisation* and the first hot off the press copies are available at Africa Automation Fair. This comprehensive additional publication contains tables that showcase the vendors of maintenance and reliability products and services from insitu sensor-based solutions for condition monitoring, through handheld portable devices for periodic maintenance related checks, through software solutions for analysis and reporting, and on to customised services like hoist monitoring and reliability management consulting. Visit Stand C11 to receive your copy and subscribe to the SAIMC's official publication, *SA Instrumentation and Control.*

***For more information contact Jane van der Spuy, Technews Publishing, +27 (0)31 764 0593, jane@technews.co.za, www.instrumentation.co.za***

## EE Publishers

EE Publishers is a leading publishing company in the south and southern African region, in the print and eletronic media, with a particular focus on the electrical, electronics, measurement, automation, control, computer information, geo-informatics and communication technology sectors of southern Africa. Journals published are EngineerIT, Energize, Vector and PositionIT. EE Publishers is a member of the Magazine Publishers Association and all the journals are ABC audited. Visit stand E10.

***For more information contact Irene Blythe, EE Publishers, +27 (0)11 543 7000, irene.blythe@ee.co.za, www.eepublishers.co.za***

## Level, pressure, flow and temperature solutions

Allpronix has a new product range from ACS-Control Systems in Germany for level, pressure, temperature, flow and other automation applications. The Precont range of pressure transmitters allows saving of configuration data via Bluetooth, with full colour TFT-LCD display, simulation of output and display values and onboard memory to log over-pressure, under-pressure, diagnostics, restarts and operating hours. The highly accurate Precont TN10 has a very high resolution analog output for precise process control. Visit Stand A1 to view the range.

***For more information contact Bruce Felix, Allpronix, +27(0)11 795 9700, bruce@allpronix.com, www.allpronix.com***

## Tube and pipe instrumentation fittings

SSP tube and pipe instrumentation fittings are designed and manufactured in the United States for process applications where leak-tight performance is critical to quality and productivity. Each brand is intermixable and interchangeable with major global brands. SSP also offers controlled tolerance stainless steel coiled tubing in metric and fractional sizes up to 1,9 cm and will be demonstrated for the first time in South Africa at OIH's Stand E2.

***For more information contact Romaen Tiffin, OIH (Oakleaf Investment Holdings 52), +27 (0)11 397 1105, romaen@oihcontrols.co.za, www.oihcontrols.co.za***

## Transmitters for smart field products

Honeywell Process Solutions is exhibiting the SmartLine range of transmitters for accurate and consistent measurement of level, volume, temperature and pressure. The SmartLine guided wave radar level transmitter can measure the level and volume of liquids inside processing tanks up to 53 metres in height.

The temperature transmitter measures temperature accurately and reliably in tough, noisy environments. The pressure transmitter measures absolute pressure, gauge pressure and differential pressure. Visit Stand B1 to find out more about all the sophisticated features of the SmartLine range, which integrates with all control systems.

***For more information contact Boni Magudulela, Honeywell Southern Africa, +27 (0)11 695 8000, boni.magudulela@honeywell.com, www.honeywellprocess.com***

## Modular switch for network security

Belden's new PowerMICE from the Hirschmann portfolio is a modular switch for DIN-rail mounting, offering comprehensive network protection. This IPv6-ready switch incorporates security mechanisms that regulate network access and protect against attacks. It is ideal for applications where both an extremely high level of network security and network availability are required. It meets all relevant industry standards and also offers high shock and vibration resistance. It is on display at Stand E22.

***For more information contact Fons de Leeuw, Profitek, 086 165 4321, sales@profiteksa.com, www.profiteksa.com***

## Multi-protocol wireless communication

Yokogawa is launching the FN110 multi-protocol field wireless communication module. This acquires sensor data from connected sensors and transmits it to a field wireless network as a device. The FN110 converts the wired communication protocol to the ISA100 Wireless protocol. With this technology, various legacy devices can be converted into a wireless device as required. Find out more about the features of the FN110 at Stand C25, D39.

***For more information contact Christie Cronje, Yokogawa, +27 (0)11 831 6300, christie.cronje@za.yokogawa.com, www.yokogawa.com/za***

## Communication solutions from ProSoft

Throughput Technologies is exhibiting new offerings from ProSoft Technology. ProSoft has recently introduced new PLC modules and gateways for Profibus, ProfiNet and IEC-61850. In addition, the ProSoft Quest range includes many gateway products for use in upgrading legacy I/O systems from various manufacturers to current automation systems. ProSoft is also introducing a new range of radio-based I/O devices that will enable automation and process engineers to incorporate I/O from remote locations into their control architecture. These are on show at Stand E23.

***For more information contact Bob Petrie, Throughput Technologies, +27 (0)11 705 2497, info@throughput.co.za, www.throughput.co.za***

## Next generation automation controller

M580 is the world's first ePAC, the next generation programmable automation controller based entirely on Ethernet. It is a key component of Schneider Electric's integrated automation architecture, PlantStruxure. It gives industrial plant teams the power to design, implement and run a process that employs all the benefits of open networking. These include increased visibility to key process data and events; enhanced transparency and consistency of information; and large capacity for data traffic. Visit Schneider Electric at Stand B9 to find out more about the M580.

***For more information contact Ntombi Mhangwani, Schneider Electric SA, +27 (0)11 254 6400, ntombi.mhangwani@schneider-electric.com, www.schneider-electric.com***

## Industrial server with 12, 24 and 36 cores

The new C6670 industrial server from Beckhoff represents one of the most powerful controllers to reach the market. It can be equipped with 12, 24 or 36 processor cores and its memory can be expanded from 64 GB up to 2 TB. The immense computing power provided by the C6670 can be most effectively utilised when each individual core is leveraged to the fullest using the TwinCAT 3.1 automation software platform from Beckhoff. The C6670 can be viewed at Stand B23.

***For more information contact Kenneth McPherson, Beckhoff Automation, +27 (0)11 795 2898, k.mcpherson@beckhoff.com, www.beckhoff.co.za***

## Final Control Element products

FCE Technical Services is showcasing a wide range of Final Control Element (FCE) products. These include control, ball, butterfly and safety relief valves; pressure reducing and back-pressure regulators; tanks, and vapour control systems. Visit Stand D31 to find out more about the many FCE applications, which include electro-pneumatic proportional valve systems and services which range from cryogenic to high temperature, vacuum to high pressure, hygienic to ultra high purity, and standard to flashing and cavitation.

***For more information contact Loraine Lundall, FCE Technical Services, +27 (0)12 808 0142, loraine@fcets.co.za, www.fcets.co.za***

## All-in-one PLC, HMI and I/O

The Vision430 from Vision Automation's award-winning Vision controller series, has a beautiful, wide 11 cm colour touchscreen. This brings added value to any application that requires a compact PLC controller with onboard I/Os. The touchscreen and five function keys are housed in a flat fascia with an IP66/IP65/NEMA4X rating, making it ideal for the food and pharmaceutical industries. Visit Stand D11 to learn more about the outstanding features of the Vision430.

***For more information contact Neil Reynolds, Unitronics / Vision Automation, +27 (0)11 826 7365, info@visionautomation.co.za, www.unitronics.co.za***

Adroit Technologies

MITSUBISHI ELECTRIC

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- 3 year warranty

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Precise, powerful, versatile

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## Access point enclosure system

The iWAP107 is the latest in the iWAP series of ATEX and IECEx approved access point enclosure systems, bringing the advantages of MIMO technology to hazardous process areas. It allows the latest MIMO access points from market leaders such as Cisco and Aruba to be deployed in hazardous areas to significantly improve wireless performance and reliability. Visit Stand B21 to find out more about the iWAP's features.

***For more information contact Gary Friend, Extech Safety Systems, +27 (0)11 791 6000, sales@extech.co.za, www.extech.co.za***

## Products for electrical, electronics, pump and tools industries

AC/DC Dynamics manufactures, imports and distributes a wide range of quality products in the electrical, lighting, solar power, pumps, alarm, tools and security and surveillance industries. The company's product range includes some of the premium international brands in low voltage switchgear, power tools, enclosures and accessories. AC/DC makes use of new, innovative technologies in energy saving solutions using CFL, inductive and LED technology. The range is on view at Stand F3.

***For more information contact Sara Ross, ACDC Dynamics, +27 (0)10 202 3300, sarar@acdc.co.za, www.acdc.co.za***

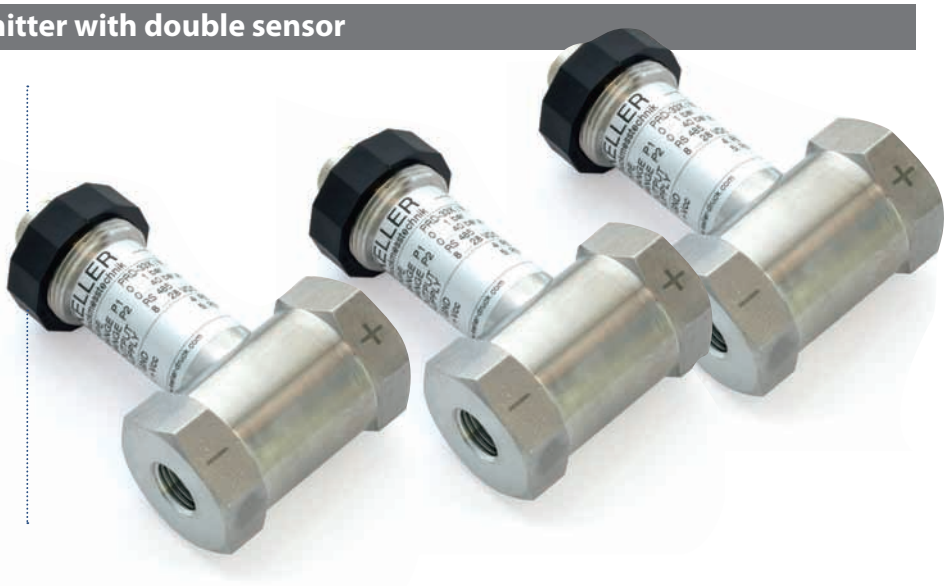
## Flowmeter with greatly reduced installation costs

The Krohne Optiswirl 4200 vortex flowmeter with integrated pressure and temperature compensation enables installation costs to be lowered by eliminating the need to install separate sensors, cables and feeds. It also increases the measuring accuracy of the measuring point to ±1.5% of the measured value. This allows savings of up to 50%. Visit Stand E16 to find out how this can be achieved.

***For more information contact John Alexander, Krohne SA, +27 (0)11 314 1391, j.alexander@krohne.com, www.za.krohne.com***

## Differential pressure transmitter with double sensor

Keller's Series PRD-33 X differential pressure transmitter features a double sensor for measuring differential and line pressure independently, with highly accurate measurements and a high overload resistance. Combining these benefits opens up new possibilities such as measuring levels in liquefied gas tanks safely, accurately and at a reasonable price. Visit Stand E12 to find out more.



***For more information contact Instrotech, +27 (0)10 595 1831, sales@instrotech.co.za, www.instrotech.co.za***

## A new compact controller

Mitsubishi Electric's FX3S programmable logic controller is characterised by its flexibility and expandability, saving on hardware costs. It has full function PLC control, built-in high speed inputs and outputs, available relay outputs, and multiple, built-in communication ports. The FX3S PLC is designed to handle basic control tasks, such as simple positioning or temperature control operations that do not require complex control tasks. Visit Stand C1 to find out more about the FX3S.

***For more information contact Adroit Technologies, +27 (0)11 658 8100, info@adroit.co.za, www.adroit.co.za***

## Accurate, stable PID temperature control

Autonics Corporation's popular TK series digital temperature controllers are on display. Engineered with an optimised PID algorithm for stable and effective temperature management, the high-speed, high-accuracy series is also equipped with various user-friendly operation functions for easy set-up and increased productivity. Visit Stand E4 to find out more about the features of Autonics Corporation's diverse line-up of automation components from South Korea.

***For more information contact Phillip Kim, Autonics, +82 32 610 2730, sales@autonics.com, www.autonics.com***

## Industrial grade PoE Ethernet switch

Moxa's new EDS-P510 Gigabit PoE managed Ethernet switch is equipped with four IEEE 802.3af-compliant PoE ports and provides connected devices with up to 15,4 Watts of PoE power per port. The ability to transmit data and power simultaneously saves on wiring costs and the industrial grade design makes it especially suitable for harsh and outdoor environments. Visit Stand C4 to find out more about the many advanced power management functions of the EDS-P510.

***For more information contact RJ Connect, +27 (0)11 781 0777, info@rjconnect.co.za, www.rjconnect.co.za***

## Universal training rig

Endress+Hauser's new R1,8 million Universal Training Rig (UTR) utilises 20 devices from the company's extensive product range. It presents application frame conditions offering a variety of training possibilities. The agitator (level disturbance), heater element (temperature changes) and injected compressed air (entrained gas) allow the process conditions to be interrupted in a controlled manner, giving a practical perspective of the sensitivities of different instrumentation types operating under varying field conditions. The UTR can be seen at Stand D33.

***For more information contact Hennie Blignaut, Endress+Hauser, +27 (0)11 262 8000, info@za.endress.com, www.za.endress.com***

## Passive standard signal isolator

Proving that high safety standards and high availability can go hand in hand, Knick's ProLine P 22400 passive standard signal isolators are certified for applications with a SIL3 safety integrity level according to EN 61508. The safety functionality comprises the highly precise, linear transmission of 4...20 mA signals with a low transmission error of 0,08% full scale. A high level of functional safety can be achieved without diagnostics, even in single-channel structures. They are on exhibit at Stand D16.

***For more information contact Henning Klaus Springer, Mecosa, +27 (0)11 257 6100, measure@mecosa.co.za, www.mecosa.co.za***

## Industrial analytical instruments

EA Instruments is a small instrument company based in Boksburg, focusing on instrument and system components for measuring water quality, relative humidity, combustion efficiency and tube gas, as well as safety and environmental applications. The company places great emphasis on developing its product portfolio by seeking out new technology on an ongoing basis. To find out more visit Elemental Analytics at Stand B2.

***For more information contact Chantelle Conradie, Elemental Analytics, +27 (0)11 918 6994.***

## Pulse radar level transmitter

Karma Sensors is a specialist supplier of process control and automation equipment. Its newly-released EchoPulse LR15/20 pulse radar level transmitter from Flowline can be used in water, petroleum, wastewater and chemical storage applications. The 26 GHz pulse provides continuous level measurement up to 30 metres. This non- contact liquid level sensor can be used in corrosive media, light surface foam or agitation where condensation or vapour is present. Visit Stand B6 to view this new and exciting product.

***For more information contact Richard Mayr, Karma Sensors, +27 (0)11 794 2859, karma@atlassystems.co.za, www.atlassystems.co.za***

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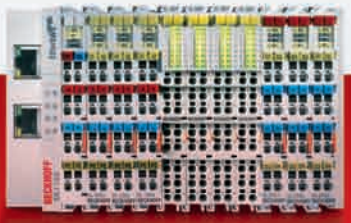

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## An automation and electrical solution provider

Afrilek is an automation and electrical solution provider, as well as providing service and support for production facilities and has the ability to provide a full turnkey solution. The company is showcasing its expertise in automation and electrical systems, instrumentation, control and analysers, variable speed drives, panels manufacturing, maintenance-based training, product supply, service and support and power managment. Visit Afrilek at Stand O1 to find out more about the company's wide range of innovative solutions.

***For more information contact Su-Anne Willemse, Afrilek, +27 (0)11 372 9340, su-anne@afrilek.com, www.afrilek.com***

## Pressure transmitter for hazardous areas

The model IS-3 pressure transmitter has measuring ranges up to 6000 bar and is suitable for hazardous applications ranging from general machine building to high pressure LDPE production. Internal sealing elements are avoided so it can be used with nearly all media. The process connections with flush diaphragm areparticularly suitable for the measurement of viscous and contaminated media and ensure trouble-free pressure measurement at all times. Visit Stand B4 to view the IS-3 and find out more about its features.

***For more information contact WIKA Instruments, +27 (0)11 621 0000, sales@wika.co.za, www.wika.co.za***

## A range of modular enclosure options

Elen Enclosures has several competitively-priced floor-standing enclosure options on show. These include the Spacial SF modular cabinet system, the Spacial SM monobloc cabinets and Spacial SD control desks. The SF range is designed for flexibility of use, allowing side-by-side baying, multiple doors and a host of mounting accessories. As a modular system, the SF enclosures can be delivered in flat-pack kit or pre-assembled. They are on display at Stand E14.

***For more information contact Andy Kapral, Elen Enclosures, +27 (0)11 472 2220, andy@sarel.co.za, www.sarel.co.za***

## Next generation of level switches

Baumer´s new CleverLevel series of level switches offer reliable differentiation of media that might be electrostatic, sticky, pasty or have a high or low viscosity. Based on the new frequency sweep technology, they are suitable for high viscosity fluids as well as for solid or liquid materials. The level switches can be programmed on site and

are well suited for separating fluids. The CleverLevel series can be viewed at Stand E35.

***For more information contact Bill Honey, Pinnacle Instruments, +27 (0)11 450 4885, bill@pinnacle-ice.com, www.pinnacle-ice.com***

## Process measurement technology

VEGA Instruments is showcasing its range of process measurement technology, ranging from sensors for measuring level, point level and pressure to equipment and software for integrating the sensors into process control systems. The VEGABAR range of process pressure sensors detects the pressure in pipes or closed vessels. Options of ceramic or metallic measuring cells are available for different applications. They are on exhibit at Stand E1.

***For more information contact Chantal Groom, VEGA Instruments SA, +27 (0)11 795 3249, chantal.groom@vega.com, www.vega.com***

## Operator control station

The XL7 operator control station is designed around a high-resolution, wide aspect ratio colour touchscreen with 1000 nits of LED backlighting. The display provides high outdoor visibility and allows it to be used in a variety of ambient lighting conditions. It features two high-speed counters and dual 10/100 Ethernet ports which add flexibility when linking to factory networks, while also performing standard functions, like Web serving FTP file transfer e-mail and protocol support. The XL7 is on show at Stand D10.

***For more information contact Chantal van der Merwe, Stock Electronics, +27 (0)16 421 3176, chantal@seweb.co.za, www.stockelectronics.co.za***

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## Power supplies

XP Power is committed to being a leading provider of power solutions, including AC-DC power supplies and DC-DC converters. XP offers total quality, from in-house design in Asia, Europe and North America through to manufacturing facilities around the world. The company offers the widest range of power products available from one source and unrivalled technical and customer support, aiding both vendor consolidation and cost reduction programmes. XP has 27 sales offices throughout Europe, North America and Asia. Find out more at Stand C3.

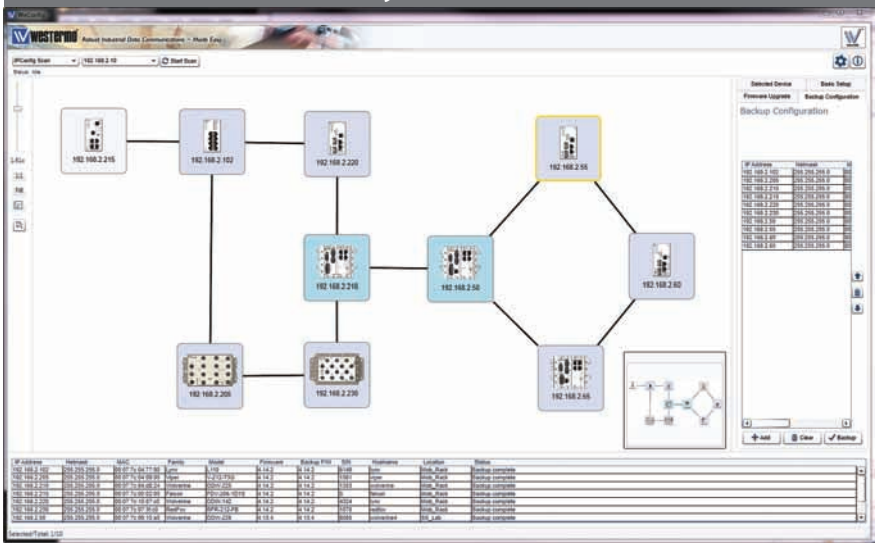
***For more information contact Vepac Electronics, +27 (0)11 454 8053, sales@vepac.co.za, www.vepac.co.za***

## Volumetric signal processor

Underground horizontal chemical storage tanks require a complex conversion of the level signal to a volumetric value. The new SC1000+ converter from Frontline Controls, when used with a Finetek EG.170.EEx magnetostrictive level transmitter, offers unmatched accuracy at an affordable price. It has an accuracy of 1 mm and makes use of a 1000+ point characteriser, resulting in a volumetric accuracy of better than 100 litres in a 60 000 litre tank. The SC1000+ is on view at Stand E11.

***For more information contact Robert Barnsley, Frontline Controls, 086 608 2659, rob@frontline.co.za, www.frontline.co.za***

## Secure remote connectivity



Throughput Technologies is exhibiting new communications products and services from Westermo, including the recently introduced WeConnect remote linking services. WeConnect has been designed for simplification of secure remote connectivity to Westermo products worldwide. WeConfig is a new configuration tool for Westermo's Layer 2 and 3 Ethernet products. It simplifies the configuration and firmware upgrades of switches on networks, as well as offering

monitoring capabilities. Visit Stand E23 to find out more about these offerings.

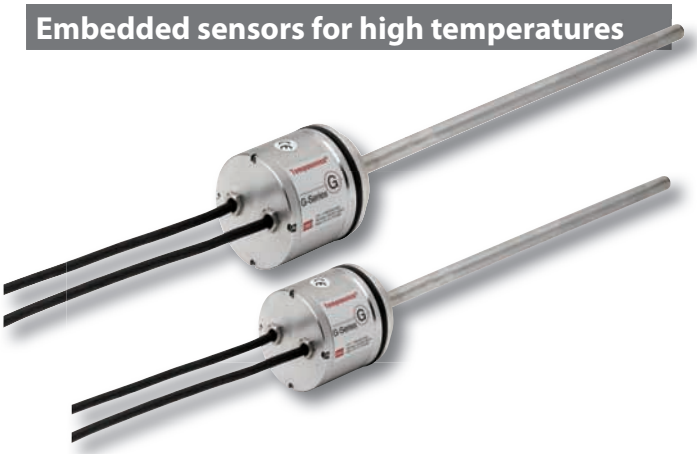
***For more information contact Bob Petrie, Throughput Technologies, +27 (0)11 705 2497, info@throughput.co.za, www.throughput.co.za***

## High performance, multi-axis servo system

The new AX8000 multi-axis servo system enables high-precision positioning and machining processes with extremely short control cycles. It has a compact form factor for space-saving control cabinet installation. Additional features include fast installation and commissioning by simply plugging together the desired axis modules, as well as One Cable Technology and the direct integration of safety functionality and mains filters. To find out more, visit Stand B23.

***For more information contact Kenneth McPherson, Beckhoff Automation, +27 (0)11 795 2898, k.mcpherson@beckhoff.com, www.beckhoff.co.za***

## Embedded sensors for high temperatures



The Temposonics G-Series Model GTE embedded magnetostrictive sensors operate at temperatures as high as 85°C and feature a redundant output and IECEx Zone 2 approval for use in hazardous areas. They use an absolute measurement, which eliminates the need for regular maintenance. Magnetostrictive sensors do not require calibration and have limited moving parts. This significantly increases their reliability in even the harshest operating environments. The sensors are on view at Stand E7.

***For more information contact Wim Annandale, ATI Systems, +27 (0)11 383 8300, technical@atisystems.co.za, www.atisystems.co.za***

## Multiple I/O node for industrial applications

Eaton's new Ethernet networking I/O and Modbus gateway is a configurable and scalable multiple I/O node for industrial applications. The versatile 115E-2 extends communications to sensors and actuators located in local, remote or difficult to reach places. It can serve as an end node or network gateway and is scalable to thousands of nodes. It is ideally suited as a power I/O expansion module for the 615M cellular modem and the 245/450U range of long-distance industrial Ethernet modems. Visit Stand D18 to find out more about the 115E-2.

***For more information contact Willem Krige, Tabateq, +27 861 008 008, info@tabateq.com, www.tabateq.com***

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## New service oriented process drive

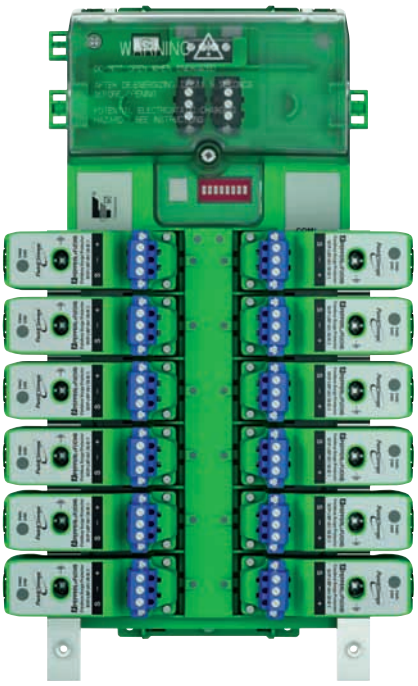
The Altivar Process is a service oriented drive designed to reduce OPEX in process and utilities installations. It provides unique engineered solutions, including embedded power measurement and energy dashboard, embedded process monitoring and control, embedded pump curves, embedded low harmonics, start and stop function to reduce consumption at stop, asset monitoring and protection, drift monitoring and seamless integration with embedded Ethernet. The Altivar Process is on exhibit at Stand B9.

***For more information contact Ntombi Mhangwani, Schneider Electric SA, +27 (0)11 254 6400, ntombi.mhangwani@schneider-electric.com, www.schneider-electric.com***

## New FieldConnex products from Pepperl+Fuchs

Three products have been added to the Pepperl+Fuchs FieldConnex range that considerably increase the availability of process systems. The FieldBarrier delivers outstanding performance through intelligent load management and prevents excessive inrush currents by activating outputs in sequence. The Segment Protector offers progressive fault detection and a compact, highly robust design. The Temperature Multi-Input is now available for Profibus PA. This facilitates the efficient integration of up to eight analog input signals in fieldbus communication. Visit Stand E41 to view the range.

***For more information contact Mark Bracco, Pepperl+Fuchs, +27 (0)87 985 0797, mbracco@za.pepperl-fuchs.com, www.pepperl-fuchs.co.za***



## Electric pressure calibrator

The Fluke 719 is an innovative, built-in electric pump for easy pressure calibration. It calibrates and tests pressure devices quickly and easily with one hand. The programmable pump limit settings eliminate over-pressurisation, while the unique cleanout port design reduces pump failures and makes it easy to clean. The compact, lightweight form, combined with one-handed use, makes the 719 ideal for process professionals. It can be seen at Stand D13.

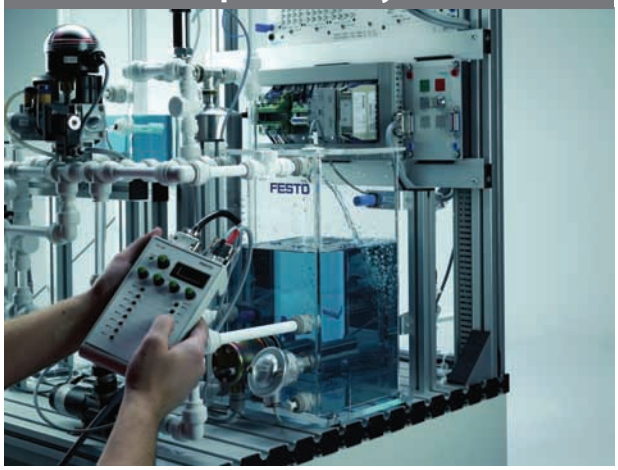
***For more information contact FLUKE by Comtest, +27 (0)10 595 1821, info@comtest.co.za, www.comtest.co.za***

## Situational awareness from a premier scada provider

The new concept of situational awareness brings real benefits to plant optimisation. Once experienced as an operational obstacle, graphics have evolved into genuinely helpful applications. Applying the concept of situational awareness to HMIs changes the way industry operates. Visit Wonderware at Stand B16 to find out more about the new and modern scada experience.

***For more information contact Jaco Markwat, Wonderware Southern Africa, +27 (0)11 607 8100, jaco.markwat@wonderware.co.za, www.wonderware.co.za***

## Festo aims for productivity




Festo's portfolio does not only feature products – the company's emphasis is on productivity. Real applications are featured that illustrate Festo's ability to provide a full solution from design, installation and production, all the way through to commissioning and support. The company's education division, Didactic, is featuring its process automation training system which highlights its ability to automate and educate. Visit Stand C29 to find out more about the products as well as the complete solutions that Festo has to offer.

***For more information contact Russell Schwulst, Festo, 08600 FESTO, sales.interaction@za.festo.com, www.festo.com***

## Advanced industrial automation

Omron Industrial Automation is a leading international manufacturer of technologically advanced industrial automation products and application expertise. The company is a market leader in the delivery of seamless input, logic and output technology, delivering connectivity that's reliable, fast and completely transparent. This results in high performance, effortless integration, total safety and the fastest possible time from concept to market. The South African operation is dedicated to providing unrivalled automation products and customised expert solutions for the local market. Meet the company on Stand D45.

***For more information contact Michelle le Roux, Omron, +27 (0)11 579 2600, info.sa@eu.omron.com, www.industrial.omron.co.za***

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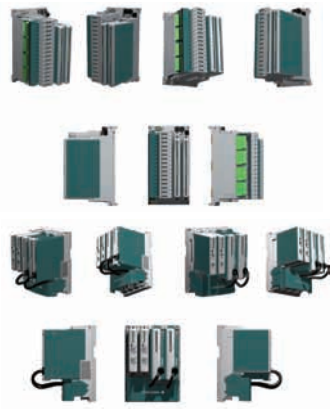
## Unitronics expands its control platform

The UniStream line of integrated PLC + HMI controllers from Unitronics, has a powerful dual CPU, sleek HMI touch panels and a variety of I/O options. It gives OEMs and system integrators a competitive edge, enabling them to cut costs, save space and significantly lower programming time. Latest in the range is the 38 cm Unistream15 colour touchscreen with 1366 x 768 pixel resolution and 16M colours. Visit Stand D11 to find out more.

***For more information contact Neil Reynolds, Unitronics / Vision Automation, +27 (0)11 826 7365, info@visionautomation.co.za, www.unitronics.co.za***

## Enhanced distributed control system



Yokogawa's enhanced version of its flagship, the Centum VP Release 6, brings together smart engineering, advanced operation, system agility and sustainable plant. It ensures an optimum engineering environment spanning the entire plant lifecycle, from plant design, to engineering and installation of systems and devices, to the start-up of production, maintenance, and renovation. Visit Stand C25, D39 to find out more about the exciting features of this new release.

***For more information contact Christie Cronje, Yokogawa, +27 (0)11 831 6300, christie.cronje@za.yokogawa.com, www.yokogawa.com/za***

## Next generation of Coriolis flowmeter

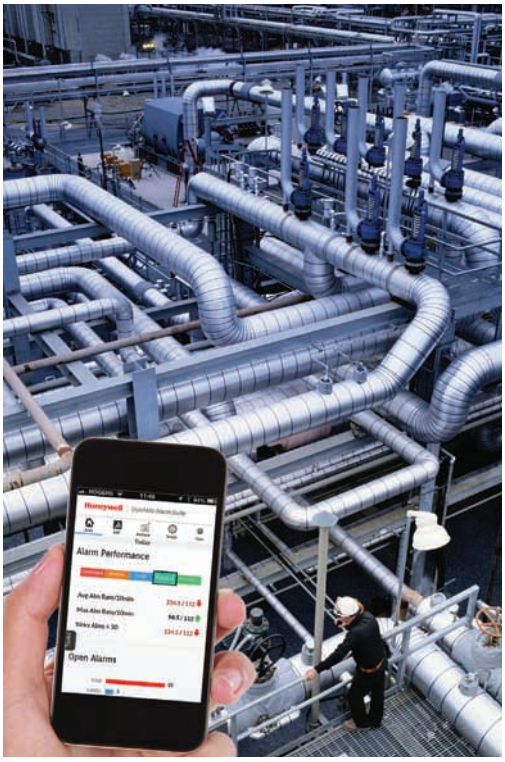
Siemens has designed the next generation of Coriolis flowmeters for excellence in performance, safety and user-friendliness. The digitally-based Sitrans FC430 flowmeter features market-leading compactness, very high accuracy of 0,1%, low pressure loss, extremely stable zero point and best-in class data update with 100 Hz high-speed signal transfer. Based on the latest developments in digital signal processing technology and engineered for high measuring performance, the FC430 can be viewed at Stand B15, C16, D23, C14.

***For more information contact Keshin Govender, Siemens Southern Africa, +27 (0)11 652 2412, keshin.govender@siemens.com, www.siemens.co.za***

## New alarm management technology

DynAMo alarm management technology from Honeywell Process Solutions is improving safety and productivity at more than 100 process plants and pipelines worldwide by helping operators evaluate alarm situations in control rooms. The DynAMo solution allows plant operators to tune out noise and focus on critical situations by managing and evaluating alarms efficiently. This allows operators to detect and prevent problems and to develop and implement effective alarm management strategies aligned with industry recognised guidelines and standards. Visit Stand B1 to find out more.

***For more information contact Boni Magudulela, Honeywell Southern Africa, +27 (0)11 695 8000, boni.magudulela@honeywell.com, www.honeywellprocess.com***



## Communication gateway for real-time condition monitoring

The IDX ifm VSE gateway is a DIN-rail mountable industrial communication gateway that allows real-time condition monitoring data from the ifm VSE diagnostic device series to be made available via a variety of standard industrial data protocols or interfaces. It has been pecifically designed to work with the ifm VSE002 and VSE100 monitoring devices and connects to up to 10 VSE devices via Ethernet. Visit Stand A5 to find out more about its features.

***For more information contact David Bean, Industrial Data Xchange, +27 (0)11 548 9960, david.bean@idx.co.za, www.idx.co.za***

## Lined diaphragm valves

Lined diaphragm valves from Gemü can withstand both corrosive media and high temperatures. They are used in water treatment, the chemical industry, the paper industry and mining. A metal valve body with hard rubber lining can, for example, be used when processing abrasive media such as slurries from the mining industry or limestone suspensions for flue gas desulphurisation processes. View these valves at Stand D12.

***For more information contact Claudio Darpin, Gemü Valves Africa, +27 (0)11 462 7795, claudio.darpin@gemue.co.za, www.gemu-group.com***

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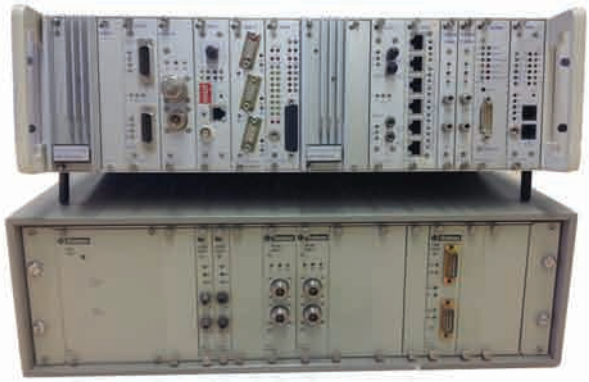

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## IP55 rated variable speed drive

Mitsubishi Electric has developed a new generation of drive technology, the FR-A846 series. Designed for unparalleled drive precision, speed control, simple startup and versatility, it offers outstanding performance in decentralised or harsh environments. This new series is equipped with a new state-of-the-art high-speed processor. With better than ever control performance and response level, safe and accurate operation is assured in a diverse range of applications. Visit Stand C1 to find out more about the outstanding features of the FR-A846 series.

***For more information contact Adroit Technologies, +27 (0)11 658 8100, info@adroit.co.za, www.adroit.co.za***

## Panel PCs for outdoor applications

The outdoor panel PCs from Phoenix Contact are designed for extreme ambient conditions. Ideal for outdoor applications, the devices offer an extended temperature range, displays that can be read in direct sunlight, UV resistance and a high level of mechanical and chemical resistance. They are easy to use, even when wearing work gloves. Visit Stand E30 to find out more about their many features.

***For more information contact Patrick Rowland, Phoenix Contact, +27 (0)11 801 8200, patrickr@phoenixcontact.co.za, www.phoenixcontact.co.za***

## Food-safe cabling solutions

Lapp group is exhibiting the Skintop Hygienic stainless steel cable gland. Specially developed for the food and beverage industry, it is ECOLAB certified and meets EHEDG requirements. Constructed from stainless steel, it is easily cleaned and can be used under the most stringent hygiene standards as the rounded shape and precision fit mean that there is nowhere for residue to accumulate. Visit Stand D29 to find out more about these features.

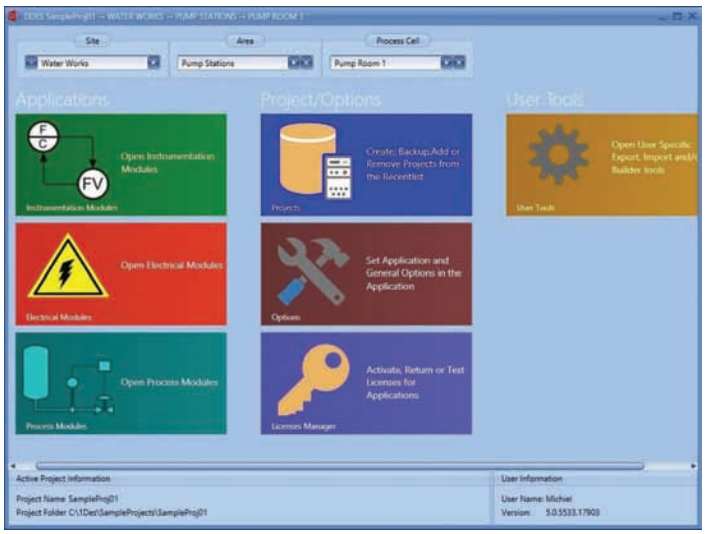
***For more information contact Alan Liebenberg, Lapp Southern Africa, +27 (0)11 201 3200, alan.liebenberg@lappgroup.co.za, www.lappgroup.co.za***

## Engineering design software

DesSoft develops engineering design software for electrical, instrumentation and process engineers globally, providing engineering design documentation solutions. These are used by EPC companies and end-users in sectors such as mining, nuclear, agriprocessing, oil refining, municipal and manufacturing.

By maintaining engineering documents, DesSoft can improve productivity and reduce plant downtime. Examples include process flow diagrams, P&ID diagrams, data sheets, Fieldbus network layouts, cable block diagrams and connection diagrams. Visit Stand D30 to find out more about these services.

***For more information contact Mark Taylor, DesSoft, +27 (0)12 644 2974, mark@dessoft.co.za, www.dessoft.co.za***

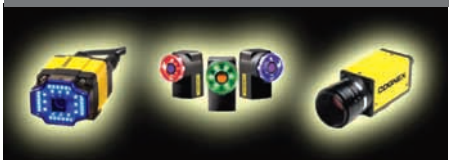


## Heavy duty pressure transmitters

The 3000 range of Gems pressure transducers from Transducer Technology features stainless steel wetted parts, a broad selection of electrical and pressure connections and a wide choice of electrical outputs. All sensors are capable of operating over a temperature range of -40°C to 125°C. Other key benefits are the low- to high-pressure capabilities and low cost. They come as a compact unit that is compatible with harsh chemicals and environments. Visit Stand A10 to see the transducers.

***For more information contact Brandon Houghton, Transducer Technology, +27 (0)11 425 2094, brandon@transducers.co.za, www.transducers.co.za***

## Visual inspection and identification products



Machine vision specialist, Westplex, is highlighting Cognex's range of visual inspection and identification products offering accuracy, reliability and high performance in production environments. They include InSight smart cameras, Checker vision sensors and Dataman industrial ID readers/code quality verifiers. Beltview and Beltwatch advanced conveyor belt condition monitoring systems are also on show, together with AOS and Fastec ultra-slow motion high-speed cameras. Also on exhibit is a comprehensive range of professional machine vision products including cameras, lights, lenses and imaging software. Visit Stand A13 to see the range.

***For more information contact Peter Westwood, Westplex, +27 (0)11 787 0473, info@westplex.co.za, www.westplex.co.za***

## Innovative control centre solutions

Oculus designs and delivers complete operational control centre solutions. Services include ergonomic studies, interior design, architectural concept and detail design, console design, installation and turnkey project supply. Oculus is the exclusive supplier of the TBC Console range, including control room consoles, edit desks and flat monitor walls. The VuWall Advanced Video Wall Systems are designed for optimal visualisation and easy collaboration. The offering also includes Ergonomic Sit Stand workstations and monitor mounting solutions. Visit Stand C24 to find out more about this range.

***For more information contact Faffa Bosman, Oculus, +27 (0)21 385 0387, faffab@oculusinnovations.co.za, www.oculusinnovations.co.za***

## High performance mass flowmeter

The Krohne Optimass 6400 for liquids and gases sets a new standard for accuracy and reliability. It is the first Coriolis mass meter to feature advanced entrained gas management by identifying transient gas entrainments. It is compliant with NAMUR standard installation lengths and covers a wide range of temperatures and pressures to meet all needs. It can be viewed at Stand E16.

***For more information contact John Alexander, Krohne SA, +27 (0)11 314 1391, j.alexander@krohne.com, www.krohne.com***

## Industrial networking products

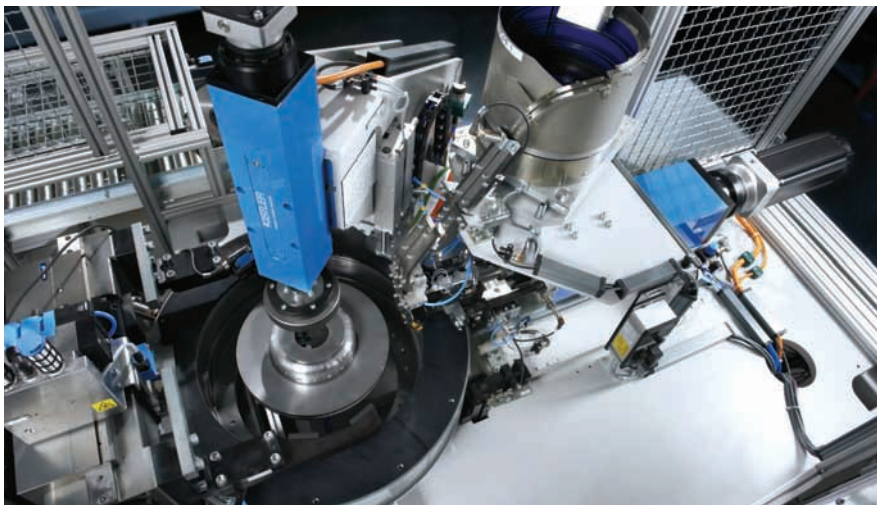
CPi Technologies is a market-leader in intelligent conveyor control and reporting systems, as well as a variety of industrial networking products. These include IP67 and IP20 Ethernet switches and Harsh IP67 I/O Modules with the following fieldbuses integrated: Ethernet/IP, Profinet, Profibus, Modbus and CC-Link IE. The company is the African distributor for Molex industrial products. Molex is a leading partner in the Rockwell Automation Encompass programme. These networking products are on show at Stand E24.

***For more information contact Darryn Brooks, CPi Technologies / Molex, +27 (0)12 998 3617, darryn@cpitech.co.za, www.cpitech.co.za***

## Monitoring and controlling NC joining modules

The maXYmos NC controls, monitors, evaluates and documents XY progressions for joining and press-fitting processes, in combination with NC joining modules and the associated servo amplifier IndraDrive. The shape of the measurement curves allows the quality of individual manufacturing steps, assembly groups or even an entire product to be easily monitored and controlled in real-time. Various fieldbus interfaces are available to connect to the control system. Visit Stand A4 to find out more.

***For more information contact Johan van Staden, INHER SA, +27 (0)11 609 2116, johan.vanstaden@inhersa.co.za, www.inhersa.co.za***



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## High performance pressure transmitter

The Sitrans P500 pressure transmitter has been developed to meet the highest expectations for measuring accuracy, ruggedness, and user-friendliness. It guarantees an accuracy of ≤0,03%, as well as outstanding values for the influence of static pressure and temperature on a measured result. In this way, it guarantees a total performance of ≤0,14% up to a turndown of 10:1. Visit Stands B15, C16, D23 and C14 to find out more about the many outstanding features of the Sitrans P500.

***For more information contact Keshin Govender, Siemens Southern Africa, +27 (0)11 652 2412, keshin.govender@siemens.com, www.siemens.co.za***

## Leadership in industrial automation

A world-leader in industrial automation, Rockwell Automation's flagship Allen-Bradley and Rockwell Software brands are recognised worldwide for innovation and excellence. Through its vision of a Connected Enterprise, the full power of the company's industrial expertise and advanced enabling technologies for harnessing information – including the Internet of Things, data analytics, remote monitoring and mobility – are put to work for its customers. The full Rockwell offering is on view at Stand E27.

***For more information contact Michelle Junius, Rockwell Automation, +27 (0)11 654 9700, mjunius@ra.rockwell.com, www.rockwellautomation.co.za***

## Localised sensor signal management

The latest Multicell Type 8619 from Bürkert offers process control engineers a modular, multi-channel local controller that is capable of operating with a wide range of sensors and process I/O. It cuts process automation costs by connecting to a wide range of sensors to measure and process data such as flow rate, pH, ORP, chlorine, temperature and conductivity simultaneously. It can also be configured as a multipoint data logger. Visit Stand C12 to find out more.

***For more information contact Bürkert Contromatic, +27 (0)11 574 6000, sales.za@burkert.com, www.burkert.co.za***

## Programmable logic controllers

The AH500 series from Delta is a simple solution to virtually all process control requirements. Features include a dual core multi-tasking processor; up to 4352 digital I/O points, up to 544 analog I/O channels; hot swapping of modules; and highly integrated software. It is versatile, cost-effective and suitable for both complex processing and precise motion control. Visit Stand E37 to find out more.

***For more information contact Pravin Govender, Electromechanica, +27 (0)11 249 5000, praving@em.co.za, www.em.co.za***

## CEM particulate monitors

Ansyco is displaying the PCME range of CEM particulate monitors, including the latest ultrasonic stack flow monitor. The Stackflow 400 can hook up directly to existing multi-channel controllers and has some unique design features. It can be mounted through existing 80 mm ports in the stack, thus reducing the total cost of installation considerably. The Stackflow 400 has full TUV certification with Qual1 approvals, as well as a host of other patents pending. The range can be viewed at Stand B29.

***For more information contact Marius van Rooyen, Ansyco SA, +27 (0)16 366 1336, ansyco@mweb.co.za***

## Clamp-on flowmeter

Tokyo Keiki's non-intrusive, clamp-on type flowmeters minimise pressure loss and the effects of deterioration of ageing pipes to ensure that high measurement accuracy and stability are maintained over time. The advantages of these flowmeters include simple and easy installation compared to intrusive wet-type meters, especially on existing pipes. The latest stationary flowmeter, the UFL-30 can be connected with up to four pairs of transducers for stable measurement, even under turbulent conditions and in short pipe lengths. It is on show at Stand B30.

***For more information contact Jan Raaths, Atlanta Instruments, +27 (0)12 666 8481, jan@atlanta.co.za, www.atlanta.co.za***

## Universal display module for point level sensors

VEGA Instruments is introducing the PLICSLED universal display module for all point level sensors. With this new display module the switching status of a sensor can be read from a distance, even in strong sunlight. The module is compatible with all sensors in VEGA's plics family with relay output. External wiring is unnecessary. PLICLED is installed directly inside the plics sensor housing, giving it protection from dust and water. Visit Stand E1 to find out more.

***For more information contact Chantal Groom, VEGA Instruments SA, +27 (0)11 795 3249, chantal.groom@vega.com, www.vega.com***

## Cost-effective industrial Ethernet switch

Belden's RSP-Smart from the Hirschmann product range is a cost-effective industrial Ethernet switch which doesn't compromise on performance. This inexpensive variant of the tried and tested family of RSP switches can withstand electrostatic discharges, magnetic fields and strong vibrations. Mounted on DIN-rails, it is IP30-compliant and can be used in challenging environments, such as machine construction. It is also certified for applications in the electricity and transport industries. Visit Stand E22 to find out more.

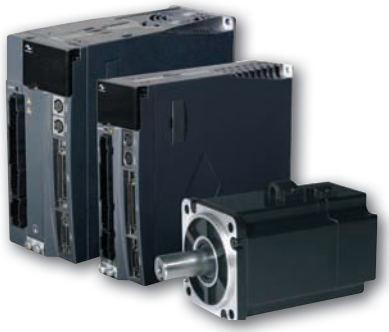
***For more information contact Fons de Leeuw, Profitek, 086 165 4321, sales@profiteksa.com, www.profiteksa.com***

## HD IP camera for extreme weather

Moxa's new VPort 26A-1MP IP camera is the world's first dome-type extreme weather HD IP camera designed to operate reliably in the -40 to 75°C temperature range without a fan or heater. Designed for industrial applications, it is armed with rugged features for both day and night outdoor surveillance in harsh environments and delivers superior video performance, DNR and WDR functions and IP bandwidth optimisation. The camera is on display at Stand C4.

***For more information contact RJ Connect, +27 (0)11 781 0777, info@rjconnect.co.za, www.rjconnect.co.za***

## Control and drive solutions



Inova Automation is the international division of the dynamic and fast-growing Inovance Technology Group, which delivers control and drive solutions from a world-class manufacturing facility to automated machinery OEMs and end-users. Inovance's extensive product portfolio includes LV general purpose AC drives; servo drives and motors; elevator geared and gearless drives; MV drives; PLCs and HMIs; solar PV inverters; electric vehicle inverters and customised inverters for air compressors, mining and textile applications. Visit Stand F1 to view this range.

***For more information contact Chris Feng, Inova Automation, +852 2751 6080, info@inova-automation.com, www.inova-automation.com***

## Power, signal and data interfaces and connectors

Phambili Interface is a division of Bidvest Electrical and the exclusive distributor of Weidmuller power, signal and data interfaces and connectors. These include terminals and connectors, electronics, markers, SAI, remote I/O, industrial Ethernet and enclosures for standard and EX areas in industry. Other products include Pfannenberg cooling, Iboco trunking, Interflex conduit, Shrinktek heatshrink and Alfra tools. All these are on show at Stand A7.

***For more information contact Derrick Mulligan, Phambili Interface, +27 (0)11 452 1930, dmulligan@weidmuller.co.za, www.phambili-interface.co.za***

## Laser-based gas analysis

SpectraSensors, now part of Endress+Hauser, is a global leader in absorption spectroscopy. Using this technology, even the smallest concentrations of individual substances in a process stream can be precisely determined. In 2013, Endress+Hauser acquired Kaiser Optical Systems, a pioneer in the field of Raman spectroscopy and applied holographic technology. Visit Stand D33 to find out more about these developments.

***For more information contact Hennie Blignaut, Endress+Hauser, +27 (0)11 262 8000, info@za.endress.com, www.za.endress.com***

# Need peace of mind for all your Industrial Automation requirements?

Visit Yokogawa's stand (C25 & D39) at AAF 2015

YOKOGAWA

100th ANNIVERSARY 1915-2015

## Surge protection for power supplies

The new Flashtrab-SEC T1+T2 is a unique and very narrow combination of a type 1 lighting arrester and type 2 surge protective device. This offers high-performance protection in environments with frequent switch actions. Lightning currents are managed safely and surge voltages are limited reliably. Phoenix Contact's SEC technology with a spark gap free of line-follow current results in long service life of the arrester and the electric installation. The Flashtrab can be viewed at Stand E30.

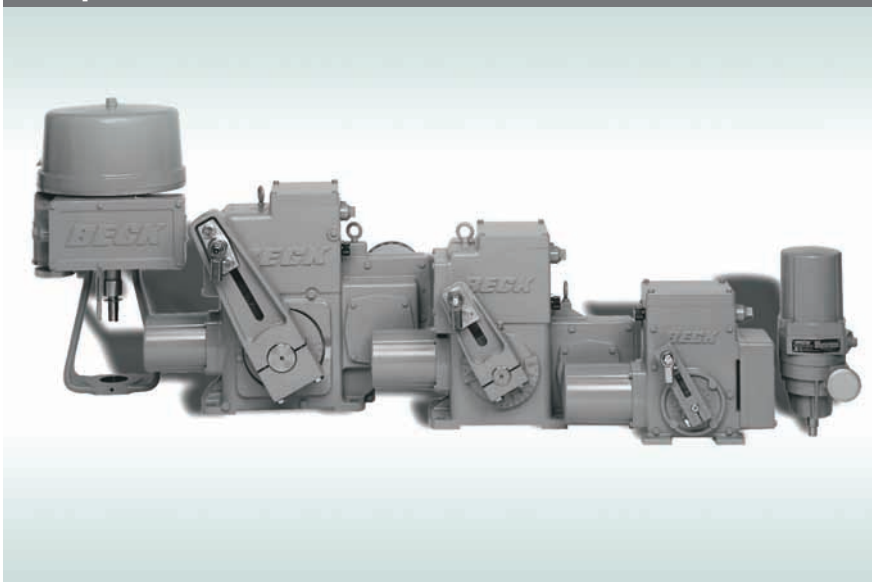
***For more information contact Tony Rayner, Phoenix Contact, +27 (0)11 801 8200, tonyr@phoenixcontact.co.za, www.phoenixcontact.co.za***

## Small control valves and ball sector valves

Pinnacle Instruments is exhibiting a range of Badger Meter's control valves for controlling small to medium flow rates in liquid or vapour, as well as Ramen ball sector valves for high performance throttling of liquids, gases, steam and slurries. They can be configured to suit a wide variety of applications from process valves to hygienic valves to special valves. Visit Stand E35 to find out more.

***For more information contact Bill Honey, Pinnacle Instruments, +27 (0)11 450 4885, bill@pinnacle-ice.com, www.pinnacle-ice.com***

## Damper drives and valve actuators



Beck damper drives and valve actuators have a well-earned reputation for superior control, high reliability and outstanding low maintenance durability. They are engineered to the highest performance standards for today's sophisticated control instrumentation. Beck's unique electric actuators combine the positioning necessary for optimum control with the reliability to keep the process running. They are on view at Stand A14.

***For more information contact Sakkie Joubert, Limit Africa, +27 (0)17 634 4852, sales@limitsa.co.za, www.limitsa.co.za***

## Infrared thermometer for hot environments

Raytek's Raynger 3i Plus infrared thermometer is designed in accordance with industry standards to meet process performance requirements in hot environments of 400 to 3000°C, providing exceptional accuracy. This portable IR thermometer is ideal for use in high temperature industrial applications. It is a robust solution for improving process quality and productivity, resulting in improved business performance. Visit Stand B18 to find out more about the Raynger's advanced features.

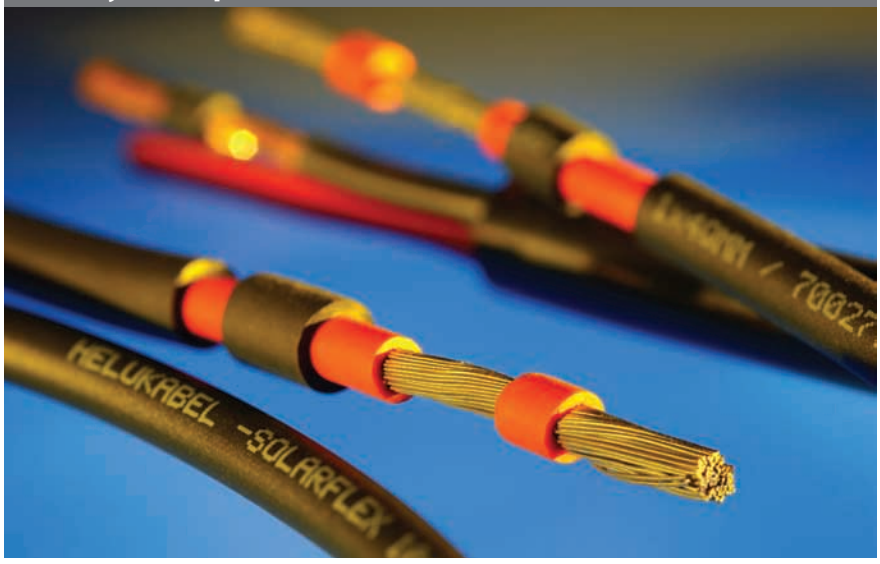
***For more information contact R&C Instrumentation, 086 111 4217, sales@randci.co.za, www.randci.co.za***

## The latest in electronics and connector technology

ifm electronic is exhibiting the latest in electronics and connector technology, including the TP temperature transmitter, the SM inline flowmeter for accurate feedback and the new AS-i power supply. Also on exhibit are the newly developed O3M151 sensor that opens up a new dimension in sensor technology and the photoelectric OI cube sensor with long ranges up to 800 mm. The R360 mobile control system is also on display. ifm Electronic is exhibiting at Stand D1.

***For more information contact ifm Electronic, +27 (0)12 450 0370, info.za@ifm.com, www.ifm.com/za***

## Quality cable products




Helukabel is an international supplier of quality wires and cables, custom cables, data, network bus and media technology, as well as preassembled cable systems for all major industries. The company can also specially design and manufacture almost any wire, cable or related product to the exact requirements of clients to meet the needs of any industry. Visit Helukabel at Stand C9 to view these products.

***For more information contact Doug Gunnewegh, Helukabel South Africa, +27 (0)11 462 8752, doug.gunnewegh@helukabel.co.za, www.helukabel.co.za***

## Future-proof video resolution

KVMTech is exhibiting Guntermann & Drunck's KVM extension for 4K resolution, providing AV professionals with future-proof video resolution. The ability of the DL-Vision KVM extender to transmit high quality images makes it a capable extension system in the field of professional video signal processing for monitoring control room processes in industrial applications. It allows control room staff and CAD and design engineers to benefit from computer-free workstations, thereby avoiding noise, waste heat and radiation. Visit Stand B19 to find out more.

***For more information contact Carla Rautenbach, KVMTech, +27 (0)21 855 1622, carla@kvmtech.co.za, www.kvmtech.co.za***

## Innovative financial services

Choice Decisions Insurance Brokers is an innovative financial services company providing clients with the best possible solutions for their financial health and wealth. The company offers niche products to suit individual needs. These include dollar based life cover, with premiums paid from a South African account and benefits paid in dollars anywhere in the world. Visit Stand D27 to find out more.

***For more information contact Choice Decisions Insurance Brokers, +27 (0)11 467 6288, graeme@choiced.co.za or claire@choiced.co.za***

# Quickfind

| Company | Telephone | e-mail | Website | Pages |
|---|---|---|---|---|
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| Adroit Technologies | +27 (0)11 658 8100 | info@adroit.co.za | www.adroit.co.za | 9*,11,22 |
| Africa Automation Fair | | hanli@elancomm.com | www.africaautomationfair.com | 3* |
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| Allpronix | +27 (0)11 795 9500 | sales@allpronix.com | www.allpronix.com | 7,11* |
| Ansyco SA | +27 (0)16 366 1336 | ansyco@mweb.co.za | www.ansyco.co.za | 27 |
| ATI Systems | +27 (0)11 383 8300 | technical@atisystems.co.za | www.atisystems.co.za | 17 |
| Atlanta Instruments | +27 (0)12 666 8481 | jan@atlanta.co.za | www.atlanta.co.za | 27 |
| Autonics | +82 32 610 2730 | sales@autonics.com | www.autonics.com | 11 |
| Beckhoff Automation | +27 (0)11 795 2898 | k.mcpherson@beckhoff.com | www.beckhoff.co.za | 9,13*,16 |
| Bürkert Contromatic | +27 (0)11 574 6000 | sales.za@burkert.com | www.burkert.com | 26 |
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| Comtest | +27 (0)10 595 1821 | info@comtest.co.za | www.comtest.co.za | 18 |
| CPi Technologies/Molex | +27 (0)12 998 3617 | darryn@cpitech.co.za | www.cpitech.co.za | 24 |
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| Endress+Hauser | +27 (0)11 262 8000 | info@za.endress.com | www.za.endress.com | 12,28 |
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| FCE Technical Services | +27 (0)12 808 0142 | loraine@fcets.co.za | www.fcets.co.za | 9 |
| Festo | 08600 FESTO (33786) | sales.interaction@za.festo.com | www.festo.com | 19 |
| Frontline Controls | 086 608 2659 | rob@frontline.co.za | www.frontline.co.za | 16 |
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| Helukabel South Africa | +27 (0)11 462 8752 | doug.gunnewegh@helukabel.co.za | www.helukabel.co.za | 31 |
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| Profitek | 086 165 4321 | sales@profiteksa.com | www.profiteksa.com | 7,21*,27 |
| R&C Instrumentation | 086 111 4217 | sales@randci.co.za | www.randci.co.za | 30 |
| RJ Connect | +27 (0)11 781 0777 | info@rjconnect.co.za | www.rjconnect.co.za | 11,28 |
| Rockwell Automation | +27 (0)11 654 9700 | mjunius@ra.rockwell.com | www.rockwellautomation.com/zaf | 26 |
| SAIMC | 086 10 72 462 | admin@saimc.co.za | www.saimc.co.za | 6 |
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| WIKA Instruments | +27 (0)11 621 0000 | sales@wika.co.za | www.wika.co.za | 14 |
| Wonderware Southern Africa | +27 (0)11 607 8100 | jaco.markwat@wonderware.co.za | www.wonderware.co.za | 18 |
| Yokogawa SA | +27 (0)11 831 6300 | christie.cronje@za.yokogawa.com | www.yokogawa.com/za | 6,8,20,29* |

## View the full Preview online

Due to the overwhelming interest we received from exhibitors we have not been able to include all the information in the printed version of the Preview due to space constraints. We have ensured that all the exhibitors who sent submissions appear at least once in the printed version, and the remaining information is hosted in a full online set of PDFs that can be viewed at: **http://instrumentation.co.za/aafpreview2015**

## All-in-one vapour delivery solution

A new series of vapour delivery modules from Bronkhorst High-Tech is on show. These compact sub-systems incorporate a liquid flow controller, mass flow controllers for carrier gas and a temperature-controlled mixing and evaporation device. They are ideally suited for vapour deposition and coating processes for the production of semiconductor chips, displays and solar cells. They can be used for the calibration of analytical devices and for humidification of fuel cells. They are on exhibit at Stand D16.

***For more information contact Henning Klaus Springer, Mecosa, +27 (0)11 257 6100, measure@mecosa.co.za, www.mecosa.co.za***

## ARCA cabinets

The innovative ARCA electrical cabinets from Fibox are designed for extremely harsh and demanding environments. With IP66 ingress protection, they are 100% corrosion-free, very robust and rugged and exceptionally easy to use and install. Constructed from high grade polycarbonate, they are easy to customise and have high impact resistance and a wide operating temperature range. Visit Stand C3 to find out about the many innovative features of these cabinets.

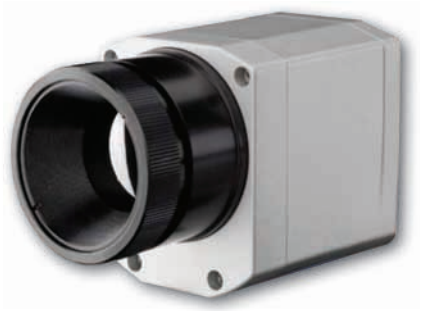
***For more information contact Vepac Electronics, +27 (0)11 454 8053, sales@vepac.co.za, www.vepac.co.za***

## Instrumentation calibrators

Oakleaf Investment Holdings is exhibiting the new GE Druck DPI 611 pressure calibrator, which provides a highly dependable, quick and simple solution to streamline pressure maintenance and calibration routines. Also on show is the Druck DPI620 Genii multifunction calibrator, packed with innovations to help improve productivity. From schedule calibration, commissioning and maintenance jobs to final reporting, the Genii enhances efficiency, reduces errors and revolutionises productivity. These can be viewed at Stand E2.

***For more information contact Romaen Tiffin, OIH (Oakleaf Investment Holdings 52), +27 (0)11 397 1105, romaen@oihcontrols.co.za, www.oihcontrols.co.za***

## Small, compact IR camera



The Optris PI 640 is the smallest, most compact video graphics array infrared camera in the world. Optical resolution is 640 x 480 pixels, giving pin-sharp radiometric pictures and videos in real time. Weighing only 320 grams, it has a temperature range from -20 to 900°C, a spectral range of 7,5 to 13 µm and a frame rate of 32 Hz. Typical applications are in the surveillance, quality assurance, automotive, glass and photovoltaic industries. Visit Stand E12 to view the PI 640.

***For more information contact Instrotech, +27 (0)10 595 1831, sales@instrotech.co.za, www.instrotech.co.za***

## Hazardous area remote terminals

Eaton's next generation MTL GECMA RT remote operating terminal enables plant managers to reduce operation costs, optimise productivity and increase plant safety. It has a unique modular design and features state-of-the-art technology to offer unparalleled levels of safety, making it ideal for use in hazardous EX zone areas in chemical, pharmaceutical, refinery and oil and gas industries worldwide. To find out more about its unique features visit Stand B21.

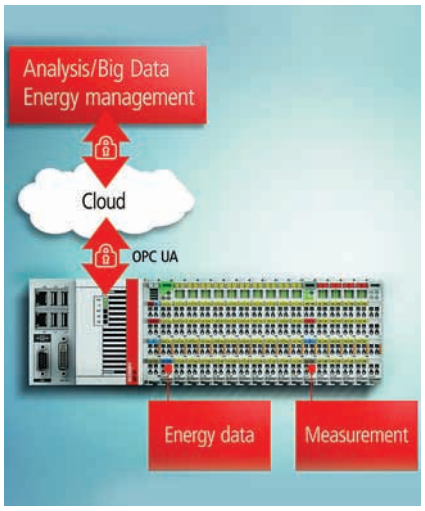
***For more information contact Gary Friend, Extech Safety Systems, +27 (0)11 791 6000, sales@extech.co.za, www.extech.co.za***

## Thermal Imager with LaserSharp AutoFocus

Temperature changes can indicate problems in everyday applications, and thermal imagers can easily check surface temperatures. Comtest offers three new high-definition, industrial-performance digital cameras, the Ti400, Ti300 and Ti200. Users of infrared camera technology rate focus as the single most important factor when conducting infrared inspections. Without an in-focus image, temperature measurements are simply not accurate. With LaserSharp Auto Focus, Fluke guarantees perfectly focused images every time. Visit Stands D13 to find out more.

***For more information contact FLUKE by Comtest, +27 (0)10 595 1821, info@comtest.co.za, www.comtest.co.za***

## Smart Metering linked with Big Data



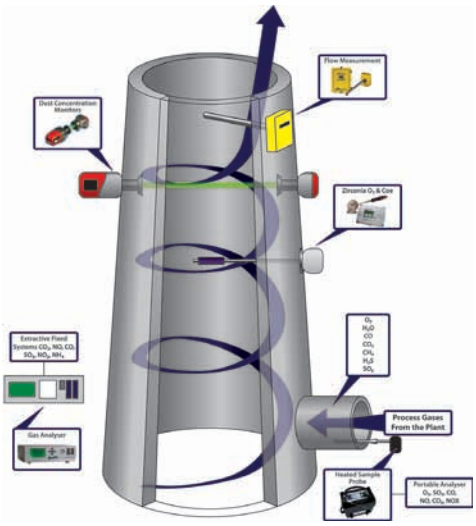

For efficient energy management in building and plant operation, consumption of water, electricity and heat must be logged at the shortest possible intervals. PC-based control from Beckhoff offers the ideal basis for the acquisition and processing of this data, including secure communication with cloud-connected database systems. These large quantities of data – Big Data – can be used by building occupants, building operators or municipalities to optimise energy consumption. To find out more visit Stand B23.

***For more information contact Kenneth McPherson, Beckhoff Automation, +27 (0)11 795 2898, k.mcpherson@beckhoff.com, www.beckhoff.co.za***

## Analytical products and services

Elemental Analytics offers sales, services and system integration for gas analysers; petrochemical analysis; environmental monitoring; instrument and system components; laboratory instruments; and gas detectors. The company designs, installs tests and commissions analytical products for process control, process optimisation and environmental applications. The new laboratory division benefits from this technical expertise with regard to installation, commissioning and hand-over of laboratory instruments, with no sub-contractor being used. To find out more visit Elemental Analytics at Stand B2.

***For more information contact Chantelle Conradie, Elemental Analytics, +27 (0)11 918 6994.***



## PLC and robot control seamlessly integrated

Beckhoff and Kuka are presenting a new common interface. The PLC library under TwinCAT 3.1 supports the mxAutomation interface to Kuka. Commands can be sent directly from the PLC to a Kuka robot with a KR C4 controller. It is thus possible for the first time ever to program the controller and robot simply on one system, without knowledge of a special robot programming language. To find out more, visit Stand B23.

***For more information contact Kenneth McPherson, Beckhoff Automation, +27 (0)11 795 2898, k.mcpherson@beckhoff.com, www.beckhoff.co.za***

## Calog calibrators

Instrotech's locally designed and manufactured Calog range of portable process control calibrators incorporates the most modern component technology, comprehensive feature capabilities and tough package design. The range covers the Calog-Temp temperature calibrator, Calog-Loop II mA calibrator, Calog-Pressure II pressure calibrator and Calog - LC II load cell tester/calibrator. Available models are for mA loop, temperature, pressure and load cell. The range is on show at Stand E12.

***For more information contact Instrotech, +27 (0)10 595 1831, sales@instrotech.co.za, www.instrotech.co.za***

## Radar sensor for bulk solids

VEGA is introducing its latest radar sensor VEGAPULS 69, designed for continuous measurement of bulk solids under different process conditions. It is ideal for level measurement in very high silos, large bunkers and segmented vessels. The excellent signal focusing ensures simple setup and reliable measurement. The VEGAPULS is on show at Stand E1.

***For more information contact Chantal Groom, VEGA Instruments SA, +27 (0)11 795 3249, chantal.groom@vega.com, www.vega.com***

## High specification, rugged smartphone

The new, intrinsically safe Rough Pro from Extronics is a high specification, extremely rugged smartphone with a large, crystal-clear 11,5 cm gorilla glass screen. The unit is ideal for 'smart worker' solutions in extreme environments where ATEX & IECEx Zone 1 certification is required. Visit Stand B21 to find out more about the many features of the Rough Pro.

***For more information contact Gary Friend, Extech Safety Systems, +27 (0)11 791 6000, sales@extech.co.za, www.extech.co.za***

## Operator control station

The XL4 operator control station has a full colour display with QVGA resolution and built-in 100 Mbps Ethernet. The Ethernet support includes an integrated web server, FTP host, email, Modbus/TCP Master/Slave and programming. It includes two USB 2.0 ports – a host port and an on-the-go port. The 2-channel high speed counter accepts frequencies exceeding 500 kHz, supporting a variety of modes including totalising, quadrature, pulse measurement, frequency counting and setpoint controlled outputs. Visit Stand D10 to find out more.

***For more information contact Chantal van der Merwe, Stock Electronics, +27 (0)16 421 3176, chantal@seweb.co.za, www.stockelectronics.co.za***

## Guided wave radar level transmitter

Process industries require safe, efficient and cost-effective control of applications having extreme temperature and pressure conditions. Magnetrol's Eclipse 706 guided wave radar level transmitter is ideal for these applications, offering accurate and reliable level measurement. It is virtually unaffected by fluctuating process conditions, including density, dielectric, viscosity and specific gravity and has superior signal strength to meet the needs of a broad range of challenging applications. The Eclipse 706 can be viewed at Stand E2.

***For more information contact Romaen Tiffin, OIH (Oakleaf Investment Holdings 52), +27 (0)11 397 1105, romaen@oihcontrols.co.za, www.oihcontrols.co.za***

## Harvest your data with IDX Nexus

The IDX Nexus is a family of modular hardware and software components that allow flexible data monitoring and control solutions to be applied to machines in extremely harsh environments. When used in combination with the IDX Suite, fleet management and other real-time optimisation strategies for distributed assets can be cost-effectively realised. Visit Stand A5 to see how the IDX Nexus framework provides reliable connection and control of remote devices.

***For more information contact David Bean, Industrial Data Xchange, +27 (0)11 548 9960, david.bean@idx.co.za, www.idx.co.za***

## High performance Ethernet switch

The new EDS-G512E-8PoE is the ideal communication solution for high-bandwidth Ethernet-powered devices in industrial applications, completing Moxa's line of high-performance and extremely reliable industrial Ethernet switches. It features a high-power output up to 36 Watts, designed for industrial, heavy-duty PoE devices; Gigabit Ethernet capabilities for large bandwidth network transmissions; easy management tools for monitoring PDs, and industrial grade reliability to withstand harsh environments. Visit Stand C4 to learn more.

***For more information contact RJ Connect, +27 (0)11 781 0777, info@rjconnect.co.za, www.rjconnect.co.za***

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**Networks and communication**
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## Introducing PlantStruxure architecture, the collaborative process automation solution with real-time visibility for enhanced safety and productivity

Is your plant operating at its full potential? If you don't have a collaborative architecture for monitoring and control, that question may be difficult to answer. And yet, quick and precise information is exactly what you need to achieve optimised business performance.

### Produce efficiently with PlantStruxure architecture

PlantStruxure™ architecture provides you with a global view of the entire facility, closing the gap between the field and enterprise and delivering real-time information to the users who need it.

### Ensuring a safe, sustainable working environment

With PlantStruxure architecture, you can finally meet your automation needs and reduce project costs, general operating expenses, and energy usage, without lowering standards or compromising safety.

So, if you're looking for a way to lower expenses and enhance your efficiency, look no further. PlantStruxure architecture is the foundation you need to yield a holistically optimised plant.

### Improve your facility's overall performance

PlantStruxure architecture is a collaborative solution that allows industrial and infrastructure companies to meet their automation needs and at the same time deliver on growing energy management requirements.

> Maximise plant and production efficiency and improve production quality.

> Protect people, plant assets, and the environment while maximising return on investment.

> Reduce engineering, operations, and maintenance costs.

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