AFRICA AUTOMATION FAIR
AFRICA’S LARGEST SHOWCASE OF INDUSTRIAL AUTOMATION AND SMART CONTROL TECHNOLOGIES
2019

4-6 June 2019
Johannesburg, Ticketpro Dome

PREVIEW GUIDE

EXPECT TO BE DISRUPTED
Connected Industries Conference takes an in-depth look at the Fourth Industrial Revolution and the impact it will have on the South African economy.

www.connectedindustries.co.za

Organised by:
www.africaautomationfair.com
www.connectedindustries.co.za
Sensorik 4.0: Smart Sensors. Ideas beyond limits.

Industry 4.0 starts with the sensor or field device. These provide the basic data for the digital networking of plants and production processes in an Internet of Things. With its innovative sensor and interface technologies, Pepperl+Fuchs already enables process and production units to interact intelligently. Be inspired at www.pepperl-fuchs.de/sensorik40
Message from the managing director

It is with great pleasure that we welcome you to Africa Automation Fair 2019. Africa’s premier and most effective networking platform to reach automation and smart control industry professionals. Africa Automation Fair has always worked closely with the IIG, SAIMC and Technews Publishing to plan and execute a focused networking platform for the automation and smart control industry. This year we have implemented a number of new value-added initiatives such as a live demonstration area, the African Hosted Buyer Program, Visitor VIP Hosted Program and visitor guided tours.

Owned by Reed Exhibitions, Africa’s top exhibition organiser with access to global trade and consumer event organising expertise serving 44 industry sectors active in 42 countries. Having established an excellent reputation over three decades we pride ourselves in delivering world-class events year on year. Customer value is our key focus which we continue to improve using data analytics thus gaining better insights into our exhibitors and visitors. This information ensures we deliver a greater return on investment for our exhibitors and a memorable experience for our visitors.

As organisers we continue to re-invent ourselves in this ever-changing market, staying relevant to specific markets, strengthening and building our exhibitions in terms of content, experiences and target audience. Reed Exhibitions is the pioneer in ensuring our events are trend setting, industry-leading and the ‘must attend’ event in our specific market sectors.

Message from the general manager

Africa Automation Fair 2019 will showcase hundreds of products filling the entire Ticketpro Dome, from 4-6 June 2019. Find out where industry 4.0 is headed and explore strategies and solutions for driving efficiency in your operations. Our exhibitors showcase the latest technologies and innovations which allows you to keep up to date with the latest trends. Exhibitors from industrial automation, industrial software, industrial factory automation, industrial valves and controls, robotics, power and automation engineering, energy technologies, and so much more will be represented at the show.

Following the success of the Connected Industries Conference in 2017, it will run alongside the fair again this year looking to assess South Africa’s Industry 4.0 progress, consider whether Industry 4.0 can revive South Africa manufacturing, look at the impact of Disruptive Technologies on business, and drill down into specific areas such as smart communication platforms, the components of smart factories, system interoperability, IIoT, Blockchain, AI, VR and AR, cloud solutions and data analytics for the industrial environment.

2019 sees the addition of the Unisa African Operations Management Conference, competitive operations management for driving automation in Africa forward. Africa Automation Fair is a mine of information this year, 3 CPD accredited workshops with in depth product presentations by industry experts – the workshops allow you to explore Industry 4.0 strategies and solutions to drive efficiency, productivity and cost benefits in your operations.

The only Automation show to offer a zone where exhibitors are able to highlight their equipment and products in action. Visitors get to see the products and technical capabilities in a live environment, they get to engage with the exhibitors & have technical discussions about the innovations on display.

AAF 2019 will illustrate ways to overcome manufacturing stagnation and fast track growth, by showcasing the latest technologies, solutions and models for next generation manufacturing. Nowhere else in Africa can you experience all the key players on one floor, comparing products, latest technologies, new developments and solutions. Discover ways automation can benefit you and how to integrate it, we look forward to seeing you and wish you every success.

Marius Smit
General Manager – Business and Technology Portfolio
Reed Exhibitions South Africa
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This list was correct at the time of going to press.
NOTHING MORE EXPENSIVE THAN A MISSED OPPORTUNITY

Africa’s premier Industrial Automation exhibition, all the key technologies, all the industrial megatrends, – A unique business platform awaits you in June 2019

AFRICA AUTOMATION FAIR
AFRICA’S LARGEST SHOWCASE OF INDUSTRIAL AUTOMATION AND SMART CONTROL TECHNOLOGIES

4-6 June 2019
Johannesburg, Ticketpro Dome

REGISTER ONLINE FOR FREE ENTRY
Robotics, digital twins, diversified engineering, innovative products or smart factory solutions – take your pick. Only at Africa Automation Fair can you find all the innovations and industry leaders of the connected industry in one place.

THE FUTURE OF DIGITISED TECHNOLOGIES
See hundreds of products, local & international exhibitors showcasing Solutions, a full range of Technical Innovations & Education across industries at Africa’s largest showcase of Industrial Automation & Smart Control Technologies.

UNRIVALED NETWORKING OPPORTUNITIES
Africa’s premier and most effective networking platform to reach automation and smart control industry professionals. Connect with leading industry experts, high level key decision makers, VIP’s and industry innovators.

KNOWLEDGE TRANSFER, EDUCATION, SKILLS
Africa Automation Fair is a mine of information this year. 3 CPD accredited workshops with in-depth product presentations by industry experts – the workshops allow you to explore Industry 4.0 strategies and solutions to drive efficiency, productivity and cost benefits in your operations.

VISITOR GUIDED TOURS
Take advantage of this unique opportunity to get a clear and concise overview of the industry themes you are most interested in. During the tour, which lasts approximately 45 minutes, exhibitors will provide exclusive 5 minute demonstrations of industry leading innovations, products and solutions.

OPEN A WINDOW TO THE FUTURE OF INDUSTRY
Nowhere else in Africa can you experience all the key players on one floor, comparing products, latest technologies, new developments and solutions. Discover ways automation can benefit you and how to integrate it.

IDENTIFY & ENGAGE THE LATEST MARKET TRENDS
Find out where industry 4.0 is headed and explore strategies and solutions for driving efficiency in your operations. Our exhibitors showcase the latest technologies and innovations which allows you to keep up to date with the latest trends.

AAF DEMO / SIMULATION AREA
The only Automation show to offer a zone where exhibitors are able to highlight their equipment and products in action. Visitors get to see the products & technical capabilities in a live environment, they get to engage with the exhibitors & have technical discussions about the innovations on display.

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The SA Instrumentation & Control website
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The place where professionals search for products, services and suppliers. With access to every article we have published since 2002, this is the ultimate instrumentation reference site.

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*The publisher has the right to refuse a free application if the respondent does not qualify in terms of our target audience.

SA Instrumentation & Control leads to controlled decisions
Spotlight on the Fourth Industrial Revolution and the impact it will have on the South African economy.

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Rockwell Automation

The Sub-Saharan Africa team are the leading supplier for automation and information solutions across Sub-Saharan region. Our flagship Allen-Bradley® and Rockwell Software® product brands are recognized for innovation and excellence. We have strong focus on extractive industries, infrastructure and consumer facing industries plus the ability to deliver effective solutions to our customers throughout the region.

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WHO SHOULD ATTEND?

• Engineering Management (Automation Engineers, Control Engineers, Process Engineers, Design Engineers)

• Production Management (Production Managers, Plant Managers)

• Operations Management (Operations Managers, Maintenance Managers)

• Procurement Management (Procurement Managers, Supply Chain Managers, Purchasing Managers)

• Manufacturing systems/IT and networking professionals

• Industrial systems and machinery designers

• Purchasers of equipment for OEMs and discrete manufacturers, as well as processing operations systems integrators

• Software development engineers for factory and process automation industries

www.connectedindustries.co.za
The SAIMC NPC is committed to advancing standards in the field of automation, instrumentation, measurement and control, creating awareness about automation amongst young people and recognition for automation at all levels. Visit us at Stand B05 to enquire about membership, apply for professional registration and interact with the knowledgeable SAIMC team about industry issues.

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

For more information contact Technews, +27 31 764 0593, jane@technews.co.za, www.technews.co.za

For more information contact EE Publishers, +27 11 543 7000, irene.blythe@ee.co.za, www.ee.co.za

Phambili Interface is the sole southern African distributor for Weidmuller connectivity and interface products. A highlight is the perfectly coordinated Weidmuller u-Motion portfolio, which paves the way for IIoT. The combination of modular automation hardware, innovative engineering tools, sophisticated digitalisation solutions and intelligent machine learning modes enables the connection of all levels of a process – from the sensor to the cloud. Visit Stand A04 to find out more about these products.

For more information contact Peter Mc Donald, Phambili Interface, +27 11 452 1930, pmcdonald@weidmuller.co.za, www.weidmuller.co.za

For more information contact Irene Blythe, EE Publishers, +27 11 543 7000, irene.blythe@ee.co.za, www.ee.co.za
Founded on PC-based control, Beckhoff’s automation systems are ideal for implementing connectivity in production environments in line with current IIoT concepts. Because of their interoperability, openness and integrated support of cloud-based services, even distributed systems can be easily connected, resulting in centralised, efficient analysis and process control capabilities. The user benefits across the board – from horizontal and vertical integration with connected production systems to consistent engineering over the entire equipment lifespan. The Beckhoff approach realises barrier-free control solutions from Zone 0/20 through to the cloud. Based at Stands D11-D12, Beckhoff also has a broad portfolio of products for use in hazardous (Ex) areas.

For more information contact Michelle Murphy, Beckhoff Automation, +27 11 795 2898, michellem@beckhoff.com, www.beckhoff.co.za

Electromagnetic flowmeters
Badger Meter’s electromagnetic flowmeters are ideally suited for flow measurement of all liquids with a minimum conductivity of 5 µS cm. The flow measurement is independent of density, temperature and pressure of the medium. Badger ModMag flowmeters are available in most flow applications from DN6-DN2000 with a wide variety of liners to suit each application. They are on view at Stand A06.

For more information contact Sean Frost, Dupleix Liquid Meters, +27 11 457 0500, sales@dlm.co.za, www.dlm.co.za

Powerful new remote I/Os
UniStream Remote I/Os are a powerful addition to the UniStream series. The line comprises an Ethernet-based remote I/O adaptor and a broad range of remote I/O modules, such as analog and digital I/Os and temperature models, which can be viewed at Stand C04. A single remote I/O adaptor can support up to 63 I/O modules.

Each adaptor comprises two Ethernet ports to support up to eight adaptors per controller.

For more information contact Unitronics/Vision Automation, +27 11 826 7365, info@visionautomation.co.za, www.unitronics.co.za

Flowmeters for clean liquids and gases
Venturi tubes such as WIKA’s model FLC-VT are reliable, easy to use and low maintenance. They are particularly suitable for the measurement of clean liquids and gases. The main advantages of a Venturi tube over other differential pressure flowmeters are the higher pressure recovery and the lower upstream and downstream pipe requirements. The FLC-VT is on show at Stand B03.

For more information contact WIKA Instruments, +27 11 621 0000, sales.za@wika.com, www.wika.co.za
The Tab-Ex 02 series of tablets from Pepperl+Fuchs has innovative features that make Industry 4.0/IIoT applications easy to implement. The DZ1 version ecom has a range of applications that are unique on the market. On show at Stands D14-D15, these Samsung-based devices are available in two versions: a Zone 2/22 model, and a Zone 1/21 model for hazardous areas. No matter where you work, Tab-Ex has you covered.

For more information contact Pepperl+Fuchs, +27 87 985 0797, info@za.pepperl-fuchs.com, www.pepperl-fuchs.co.za

The VG series vision sensors utilise images captured by integrated industrial camera lenses to determine a target object's presence, colour, size, shape, orientation, patterns and more. On show at Stand D18, the sensors feature 13 essential inspection functions for diverse applications. The captured images can also be saved directly to FTP servers, so that users can manage and analyse inspection data separately.

For more information contact Autonics, +82 51 519 3232, sales@autonics.com, www.autonics.com

GHM Messtechnik’s Safety-TL4896 is a SIL2-rated temperature measuring device from Martens, that conforms to international boiler regulations and offers a unique front panel installation. Certified to DIN EN14597 and DIN EN61508, the device gives an analog actual value output for regulators and PLCs, eliminating the need for additional sensors. It is designed specifically for application in industries using boiler technology. Visit Stand C09 to find out more.

For more information contact Jan Grobler, GHM Messtechnik, +27 11 902 0158, info@ghm-sa.co.za, www.ghm-sa.co.za

S4 Integration is showcasing its automation competence, MES Lighthouse as well as robotic and turnkey solutions. In addition the S4 stand has on exhibit wireless Andon and vision systems. S4 Integration's comprehensive experience has allowed the company to provide high quality, cost-effective automation products and services that cannot be found locally. Visit S4 Integration at Stand C08 and dive into the world of industrial automation.

For more information contact Sigourney Bruintjies, S4 Integration, +27 41 451 1250, sigourney.bruintjies@s4.co.za, www.s4.co.za
Beckhoff will exhibit innovations in all technology areas at Africa Automation Fair 2019. As an expert in industrial PC design & in-house manufacture, ultra-compact IPCs will be on display, along with One Cable Automation, where users can reduce installation and material costs significantly with the OCT and EtherCAT P technologies. Beckhoff’s extensive range of explosion-proof components providing comprehensive solutions for barrier-free system integration right into Zone 0/20, upcoming TwinCAT Vision as well as TwinCAT HMI and the new TwinSAFE controllers for more efficient implementation of distributed safety applications will be shown along with extremely accurate, fast and robust EtherCAT measurement modules and solutions for Industry 4.0 and IIoT and the evolutionary EtherCAT G.

We look forward to seeing you at the Ticketpro Dome, Booth D11 – D12!
**Industrial cybersecurity for industrial control systems**

The Hirschmann Tofino provides an advanced industrial solution that solves many of the most challenging energy-specific cyber and physical security challenges. The easy-to-deploy appliance protects against malicious and unauthorised access, improves scada system reliability, provides greater security control for ICS devices, and supports more industrial protocols than many other devices available. It meets security standards from the International Society of Automation’s IEC-62443 programme. Visit Stand F06 to find out more.

*For more information, contact Izette Groenewald, Profitek, +27 12 345 6544, izette@profiteksa.com, www.profiteksa.com*

**Augmented and virtual reality for automation**

bizAR Reality develops custom augmented and virtual reality solutions for businesses. The company has successfully designed, developed and deployed award-winning technologies across multiple industries. bizAR Reality is demonstrating its virtual reality training simulations at Stand F21, along with its FusionBloc smart glass product range, which uses industrial, augmented reality smart-glasses for remote expert assistance and warehouse picking.

*For more information contact Anthony Eva, bizAR Reality, +27 81 767 1003, anthonye@bizarreality.co.za, www.bizarreality.co.za*

**Combine process and motion control with Profinet networking**

Yaskawa’s MICRO CPU provides high performance and channel density, with prepared PLC and HMI/scada motion software libraries for Yaskawa servos and VSDs. At 0,02 µS per instruction and direct execution of code without translation, this CPU achieves the execution speeds of a large CPU. In addition to standard Ethernet, the MICRO also has Profinet communication. It has an integrated web server to access diagnostics easily and create freely definable web visualisation projects. Visit Stand B08 to find out more.

*For more information contact Varispeed, +27 11 312 5252, enquiries@varispeed.co.za, www.varispeed.co.za*

**Powerful design tools**

Eplan develops CAx, configuration and mechatronic solutions and advises companies on the optimisation of their engineering processes. Products on show at Stand D13 are Electric P8, which supports electrical controls design for machines and plants; Pro Panel Prof for designing and building control cabinets, switchgear systems and power distribution systems; Fluid for designing and automatically documenting the schematics for fluid systems; and Harness proD for the efficient design and documentation of cabling and wire harnesses.

*For more information contact Eplan, +27 11 609 8294, info@eplan.co.za, www.eplan.co.za*
Dassault Systèmes offers collaborative solutions that transform the way products are designed, produced and supported. The DELMIA portfolio helps global businesses re-imagine their engineering operations and planning in a simulated production environment, resulting in manufacturing excellence. Other products on show at Stand A01 are engineering and design software for 3D CAD, simulation applications, collaborative innovation software, and analytics solutions to manage data for faster and smarter decision making in real time.

For more information contact
Maxime Rocher, Dassault Systèmes, +27 11 080 8031, maxime.rocher.contractor@3ds.com, www.3ds.com

New generation HMI/PLC series of controllers

The new generation of the TX700 series of HMI/PLC controllers can control and visualise even more complex processes and applications than before. With several interfaces and an integrated OPC UA server, the TX700 is a versatile controller that can be used to keep stock at manageable levels. Users requiring simple display devices without a control function will also find a solution in the TX100 series. Visit Stand H02 to view these controllers.

For more information contact
Brandon Topham, Turck Banner, +27 11 453 2468, brandon.topham@turckbanner.co.za, www.turckbanner.co.za

Radiometric density system

On show at Stand D08 is the new DuoSeries LB 475 radiometric density system from Berthold, which is designed for the cementing and hydraulic fracturing industries. The density transmitter is a state-of-the-art control unit with a robust TFT touch panel, powerful Dual Core CPU, and diverse operator interfaces. Advanced self-diagnostics and monitoring features ensure safe function. New service functionalities like data logging can be accessed either remotely through Ethernet connection or through a USB port.

For more information contact
Henning Springer, Mecosa, +27 11 257 6100, measure@mecosa.co.za, www.mecosa.co.za
Pepperl+Fuchs has on show a range of IO-Link infrastructure components. As a globally established communication standard that is system- and fieldbus-independent, IO-Link offers many advantages. The universal interface allows sensors and actuators to be connected uniformly, lowering the cost of installation, commissioning and plant maintenance. IO-Link makes it possible to obtain and evaluate other information alongside process information. Visit Stands D14-15 to find out more.

For more information contact Pepperl+Fuchs, +27 87 985 0797, info@za.pepperl-fuchs.com, www.pepperl-fuchs.co.za

Extech is exhibiting the mobXscan app for use in hazardous areas, which adds the capability of barcode scanning to any Windows 10 tablet or Android device. It can be seen at Stand E03. It uses the built-in camera to scan and capture the barcode. With its easy to use interface, the mobXscan opens up true 100 ms barcode scanning at a fraction of the cost of traditional intrinsically safe barcode scanners.

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

XinaBox is a rapid IIoT and electronics development solution that does not require soldering or wiring, only basic coding. These plug-and-play modules are reconfigurable chips that can be used in both business and education. The xChips can be used to create a PCB device to measure, monitor and track temperature, humidity, pressure, altitude and ambient light. They are ideal for testing applications and building prototypes and are on show at Stand G14.

For more information contact RS Components, +27 11 691 9300, sales.za@rs-components.com, www.rsonline.co.za

SEW-Eurodrive is showcasing the D5 delta robot, a smart solution for incorporating machine-integrated robots. The high-speed pick-and-place system includes tracking and Movikit robotics software. It is based on the proven concept of two parallel axes, one to rotate and the other to tilt the product. Visit Stand H07 to find out how SEW-Eurodrive is at the forefront of energy-efficient technology that is cost-effective and represents the best of German engineering.

For more information contact Jana Klut, SEW-Eurodrive, +27 11 248 7000, jklut@sew.co.za, www.sew-eurodrive.co.za
We look forward to meeting you at our stand - F05, F07, G05 and G06
www.icubedgroup.co.za
A new development from SEW-Eurodrive is the Movigear mechatronic drive system, which combines an energy-efficient gear unit, motor and frequency inverter, and has received the TÜV SÜD Energy-Efficient Plant Technology certificate. The Movidrive MDR regenerative power supply unit and Moviaxis multi-axis servo inverters are other examples of energy-saving innovations. Visit Stand H07 to view these products and see how SEW-Eurodrive is focusing on optimising energy requirements in the face of dwindling resources, spiralling energy costs, and stringent emissions regulations.

For more information contact Jana Klut, SEW-Eurodrive, +27 11 248 7000, jklut@sew.co.za, www.sew-eurodrive.co.za

Banner Engineering’s wireless vibration solutions kit and temperature sensor provides superior machine monitoring. Designed to effectively monitor machines for increases in vibration and temperature, the sensor measures RMS velocity in inches per second or millimeters per second, and temperature. This enables the sensor to identify machine problems before they become too severe and cause additional damage or result in unplanned downtime. Stand H02.

For more information contact Brandon Topham, Turck Banner, +27 11 453 2468, brandon.topham@turckbanner.co.za, www.turckbanner.co.za

Bartec’s Wireless X is a small, light wireless access point, eliminating the need for bulky, heavy enclosures and external antennas. On show at Stand G13, it has both IECEx and ATEX Zone 1 certification. The flexible design allows for POE, fibre and daisy chain configurations. It also offers 802.11ac and 802.11ad. All components are in one neatly designed package, resulting in cost reduction in installation, commissioning, inspection and maintenance.

For more information contact Adriaan Lombard, Bartec, +27 11 672 3015, adriaan.lombard@bartec.co.za, www.bartecgroup.com

With TwinCAT Vision, Beckhoff has incorporated comprehensive image processing capabilities into its PC-based control system. On show at Stands D11-D12, TwinCAT software unites a comprehensive range of machine functionality – PLC, motion control, robotics, high-end measurement technology, IoT, HMI and now machine vision – all in an end-to-end engineering and control platform. This eliminates the need for separate vision solutions. The software opens up vast innovation potential in machine building – for instance, through consistent real-time synchronisation with other automation tasks or support of advanced track-and-trace solutions.

For more information contact Michelle Murphy, Beckhoff Automation, +27 11 795 2898, michellem@beckhoff.com, www.beckhoff.co.za
Rascals Automation Training & Solutions offers customised solutions for technology in the industrial and domestic markets. Services include customised training solutions based on a full employee skills analysis. This involves an analysis of the employee's key performance indicators combined with plant-specific applications. These services are ideal for small to medium manufacturing facilities and are inclusive of product and on-site support. Visit Stand C12 to find out more about Rascals’ automation and audiovisual solutions for the domestic and industrial sectors.

For more information contact Des Burrows, Rascals Automation Training & Solutions, +27 11 867 0016, des@rascalsautomation.co.za, www.rascalsautomation.co.za

Customised training solutions

In a world first, connection systems specialist, Lapp Group has launched a family of cables designed specifically for DC applications. This is the result of extensive research showing that in principle, cables for alternating current can also be used for direct current. Visit Stand F02 to see the new Ölflex DC 100, which is designed to withstand decades of use supplying motors and systems with direct current, just like its alternating current equivalent, the Ölflex Classic 100.

For more information contact Lapp Group Southern Africa, +27 11 201 3200, info@lappgroup.co.za, www.lappgroup.co.za

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Cable solutions are offered for every aspect of the installation. This includes all related cable as well as cable protection, connectors, conduits, glands and tools. All products are manufactured to the highest standards and are RoHS compliant and we are certified according to DIN ISO 9001.
SiteManager is a security certified IIoT Edge Gateway in the Secomea Industrial Communications Solution program that ensures unified, uninterrupted and secure access to remote industrial equipment. Visit Stand D16 to view the SiteManager 35xx series, a robust, DIN-mountable industrial gateway that is installed in machine control panels to provide remote access for on-demand, real-time servicing of industrial equipment. SiteManager is also capable of data collection, with detailed cloud analysis for predictive and preventive maintenance.

For more information contact Bob Petrie, Throughput Technologies, +27 11 705 2497, bob@throughput.co.za, www.throughput.co.za

Collaborative robots

Cobots is showcasing its range of collaborative robots. These robots make it simple and affordable for humans and machines to work together without a safety cage. Cobots can easily be implemented in small to large organisations, allowing for a range of automation levels. Various end effectors and accessories for different applications are also on show. Make your way to Stand J17 to engage with a series of collaborative robots from Universal Robots.

For more information contact Frederik Langenhoven, Cobots, +27 12 764 7284, frederik@cobots.co.za, www.cobots.co.za

A switch for the next generation network

The Hirschmann BOBCAT Switch is a compact managed switch. It is the first appliance to provide advanced security and real-time communication through time sensitive networking (TSN) technology on all of its ports to standardise Ethernet usage in any application. Visit Stand F09 to find out how with more security and flexibility, this switch takes Ethernet to the next level and is equipped to work with the evolving needs of industry.

For more information, contact Daniel Nyange, IAC, +27 12 657 3600, sales@iacontrol.co.za, www.iacontrol.co.za

Compact, cost-effective servo solution

elonics is introducing the latest addition from the LSIS servo family, the Xmotion L7C servo drives and motors. The L7C Series offers a cost-effective, high precision solution that is both compact in design and affordable, to suit applications from 0,1 ~ 1 kW single phase 220 V AC. Also on show at Stand G08 are the latest PLC and HMI products from LS as well as medium voltage drives and soft starters.

For more information contact Bryce Mildenhall, elonics, +27 31 702 6242, bmildenhall@elonics.co.za, www.elonics.co.za
A gateway to digital transformation

Industrial automation specialist, Rockwell Automation is showcasing its flagship Allen-Bradley and Rockwell Software product brands, which are recognised worldwide for innovation and excellence. These make it possible to converge networks at the plant and enterprise level, and securely connect people, processes and technologies. Visit Stand F17 to find out how Rockwell products can pave the way to digital transformation and smart manufacturing.

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

Gas monitors

RTS Africa Technologies is exhibiting LaserGas gas monitors from Neo Monitors. These are ideal for accurate measurement of specific components in gas mixtures such as flue gases. The NEO LaserGas monitor is not affected by other gases in the gas stream and there is no cross interference. Also on show at Stand B02 are hydrogen gas analysers by H2scan and the Hy-Alerta 2700 for measuring hydrogen content in refinery process gas streams.

For more information contact Catherine Scholtz, RTS Africa, +27 12 433 6335, catherine@rtsafrica.co.za, www.rtsafrica.co.za

Ball sector valves and sliding gate valves

Macsteel Fluid Control is exhibiting ball sector valves and sliding gate valves from Schubert & Salzer Control Systems at Stand D17. The robust, efficient ball sector valves are capable of very precise control and isolation in arduous slurries and viscous fluids. The sliding gate control valves are light and highly accurate and can control liquid, vapour and gaseous media precisely, quickly and economically.

For more information contact Kamil Maharaj, Macsteel Fluid Control, +27 31 581 7800, kamil.maharaj@macfluid.co.za, www.macsteel.co.za

Spectrum analysers for RF signals

Accutronics is exhibiting the SignalShark real-time spectrum analysers for the detection, analysis, classification and localisation of RF Signals. These are on show at Stand D06. Features include a frequency range 8 kHz to 8 GHz; real-time bandwidth of 40 MHz; an extremely high sweep rate of 50 GHz/s; an HDR receiver; a high time resolution spectrogram; a powerful live persistence spectrum; and 100% POI for signals longer than 3,125 μs.

For more information contact Tobie Muller, Accutronics, +27 11 782 8728, sales@accutronics.co.za, www.accutronics.co.za
High performance sensors

The LE46C sensors from Leuze electronic are reliable and cost-effective, with high performance reserves and large ranges. On exhibit at Stand J13, these sensors are ideal for use in conveyor and storage systems, in the wood processing industry and in special purpose machinery manufacture. The extended series of sensors, with large lenses, IP67 and IP69K protection and patented auto-control function reserve warning, open many application fields.

For more information contact Jochen Geissler, Leuze electronic, +49 7021 573 359, jochen.geissler@leuze.com, www.leuze.com

Actuators for precise positioning

Beck actuators provide precise positioning of valves, dampers, fluid couplings and other final control elements. Unlike pneumatic and conventional electric actuators, they can withstand continuous duty modulation without degradation of performance. The unique, no burn-out motor allows for continuous modulation, while it has factory calibrated smart digital control electronics. They have also been tested at 50 million drive sleeve turns and are virtually maintenance free. They are on show at Stand A09.

For more information contact Logan La Cock, Limit SA, +27 17 634 4852, sales@limitsa.co.za, www.limitsa.co.za

Powerful engineering design solutions

DesSoft is demonstrating its range of electrical, control and instrumentation and P&ID solutions at Stand A02. These powerful engineering design solutions are ideal for a rapidly changing industrial environment. Visit the stand to find out how to use DesSoft’s speed tools to bulk import valuable engineering data that can be transformed into auto-generated asset registries, data sheets, BOM, BOQ, bulk loop and panel diagrams, and cable block diagrams.

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

Factory automation solution

As the official authorised distributor for Mitsubishi Electric’s Factory Automation, Adroit Technologies is profiling a range of products including PLCs, drives, HMI and robots. These together make possible a high level of real-time data acquisition and reporting software, functionality, contextualised information and time saving in development and deployment on processing plants. Visit Stand C01 to find out how Adroit is an ideal enterprise scada or IIoT platform on which customers can deliver value added automation solutions.

For further information contact Adroit Technologies, +27 11 658 8100, info@adroit.co.za, www.adroit.co.za.
The IN-FLOW mass flowmeters and controllers by Bronkhorst High-Tech are of rugged design according to IP65. Showcased at Stand D08, the instruments are available for flow ranges from 0,05 to 1 ml/min up to 200-10000 m³n/h air-equivalent. In addition to optional ATEX approval for use in Category 3, Zone 2 hazardous areas, the IN-FLOW series now has FM approval for Class I, Division 2. Furthermore, a Profinet fieldbus interface is available for gases.

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

Oculus is showcasing VuWall video wall management and AV distribution solutions at Stands F05, F07, G05 and G06. Designed to simplify the life of AV/IT integrators and video wall operators, VuWall systems are easy to use and deploy. The award-winning VuWall solutions are installed in control rooms, collaboration rooms and corporate environments worldwide, within Fortune 500 companies, government agencies and some of the most prestigious control rooms in the world.

For more information contact Johan Pretorius, Oculus, +27 21 385 0387, johanp@oculusinnovations.co.za, www.oculusinnovations.co.za
Siemens is showcasing its SIMATIC portfolio of automation products that together prepare factories for digitalisation, totally integrated automation solutions and Industry 4.0. Proven for sixty years, SIMATIC makes facilities more productive, efficient and reliable, reducing time to market through simplified engineering and simulation tools. Included in the wide range of products are controllers; software for diagnostics and energy management; HMIs; distributed I/O systems; components for connectivity and communication; DCSs for integrated automation; sophisticated MES systems; and automatic RFID systems. Join Siemens at Stands G10, G11, H05 and H06.

For more information contact Jennifer Naidoo, Siemens Digital Industries, +27 11 652 2795, jennifer.naidoo@siemens.com, www.siemens.com/digitalenterprise

Prime Automation is exhibiting Pilz safety products for automation, Escha connectivity solutions, IDE enclosures and Inxpect safety scanners. These can be viewed at Stand D05. Pilz specialises in safety in automation with a wide variety of relays, configurable controllers, PLCs and sensors. Escha supplies connectors, Profinet cables, splitters and junction boxes. The IP67-rated Inxpect safety scanner is a brand new technology using radio frequencies to sense an approaching object.

For more information contact Craig Cuff, Prime Automation, +27 41 819 7746, craig@primeautomation.co.za, www.primeautomation.co.za

Entek Electric’s RCBO models KBL-6 and KBL-10 are used to protect electrical circuits with a high level of reliability in industrial machines or residential buildings. Both models are widely in demand in many countries due to their excellent quality and variety of application areas. The unique characteristics of RCBO’s KBL-6 and KBL-10 make development of low voltage installation easy and efficient. Visit Entek Electric on stand G02-2.

For more information contact Claire Huang, Entek Electric, +886 952 960324, clairehuang@entekelec.com, www.entekelectric.com

The Field Reference Hand Book on Basic Principles of Industrial Instrumentation and Control is a field encyclopaedia for instrument field personnel, and is ideal for apprentices and new technicians or artisans. It focuses on the basic principles of industrial instrumentation and control, with case studies on real life experiences and problems. Among the topics addressed are terminology, formulae, typical faults and solutions, fundamental drawings and images – all presented in simple language and style. The guide is on show at Stand J01.

For more information contact Manqoba Gumede, Gumco Publishers, +27 83 672 6511, manqoba@gumcoholdings.co.za, www.gumcoholdings.co.za

Residual circuit breaker with overcurrent protection

Safety products for automation

A new handbook on instrumentation and control

A product family for the factory of the future
Valve island with CoilVision technology

Camozzi Automation’s Series D valve island has the ability to combine two different valve sizes in the same island with the help of only one initial electric part, bringing important benefits in terms of reduced dimensions and costs. Another characteristic of the Series D is its CoilVision technology, which constantly monitors the operational parameters of the solenoid, allowing proactive management of performance. The Series D is on show at Stand G16.

For more information contact Martyn Jones, Hydramatics, +27 11 608 1340, mjoness@hydramatics.co.za, www.hydramatics.co.za

Enclosures and transformer components

Allbro is the largest supplier of enclosures and transformer components on the African continent. The harsh climate and the nature of the environment where Allbro products are installed has driven the company to create many unique solutions. Its installed base of more than 100 million units in service for up to 40 years is testament to what can be expected with Allbro. Visit Stand B11 to find out more.

For more information contact Allbro, +27 11 894 8341, marketing2@allbro.com, www.allbro.com

Smart pyrometers

R&C Instrumentation is showcasing the Thermalert 4.0 pyrometer from Fluke Process Instruments at Stand F04. The series comprises 13 models with varied spectral responses, including dedicated sensors for metals, glass, and plastics products. Temperature ranges are from -40 to 2250°C and a large choice of optics is available for long and short focal distances. New features include stainless steel construction, laser sighting, software and USB cable for easy setup.

For more information contact R&C Instrumentation, +27 11 608 1551, info@randci.co.za, www.randci.co.za

Leak detection in coal-fired power stations

Instrotech’s advanced acoustic leak detection system, Inspecta FFT, can detect boiler tube leaks in coal-fired utilities and in oxygen plants and gasifiers. The technology and equipment is in use in power stations worldwide, where the early detection of tube leaks to reduce down-time and prevent consequential damage is vital. Authorised distributors are on hand to provide high levels of support as well as spare parts. To find out more visit Stand C14.

For more information contact Instrotech, +27 10 595 1831, sales@instrotech.co.za, www.instrotech.co.za
Modular assembly

Modular Assembly Technology South Africa (M.A.T.S.A) has world class aluminium strut profiles, conveyors and a variety of accessories on show. The company’s products are fully customisable and easy to assemble and they allow any structure or frame to be built effortlessly. Visit Stand F08 to learn more about the possibilities for modular assembly.

For more information contact Modular Assembly Technology South Africa, +27 41 451 2712, roline@moduasm.co.za, www.moduasm.co.za

Speedy, reliable mA loop valve testing

Fluke’s new 710 mA loop valve tester allows technicians to source the 4-20 mA signal while it interrogates HART data to collect critical information about a valve’s position and status, providing quick checks of control valves while they are in place. With built-in test procedures and an intuitive interface, it provides at-a-glance diagnostics to make faster maintenance decisions. Visit Stand F10 to find out more about the Fluke 10.

For more information contact Comtest, +27 10 595 1821, sales@comtest.co.za, www.comtest.co.za

Industrial automation equipment

Anytech is an industrial automation equipment supplier that has been providing high tech solutions to a wide variety of customers in various industries throughout southern Africa since 1999. High tech quality products from European suppliers include the Sigmatek fast automation PLCs and servo motors, CTI, FAS Tech panel PCs, Helmholz, Insevis and the extremely versatile and powerful Zenon scada. These are on display at Stand F14.

For more information contact Allan Welfare, Anytech, +27 11 708 1992, allan.welfare@anytech.co.za, www.anytech.co.za

Continuous level measurement

The Nivobob series from Morton Controls is used for continuous level measurement within bulk storage silos and for interface measurement of sludge beds. The system is immune to dust, dielectricity, conductivity, humidity and caking, and delivers a reliable level signal. The simplicity of the Nivobob series makes it user-friendly to set up, durable and cost-effective. Visit Stand C13 to find out more.

For more information contact John Basson, Morton Controls, 0861 000 393, sales@mortoncontrols.co.za, www.mortoncontrols.co.za
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sales@turckbanner.co.za

www.turckbanner.co.za
Industrial signal conditioner

Setting new standards in industrial process control, ESTEQ’s ClipX signal conditioner adapts to each measurement task, whether it is used with single- or multiple-channel applications, in manufacturing machines, in test benches and in production monitoring. Up to six devices can be plugged simultaneously into a modular setup and the measured data can be precalculated. Visit Stand C11 to find out how ClipX provides all the latest automation interfaces to perfectly integrate the device into comprehensive control concepts.

For more information contact ESTEQ, +27 12 809 9500, info@esteq.com, www.esteq.co.za

Multi-function PLC, HMI and I/O in a single 7” unit

This multi-function UniStream PLC with an integrated, high-quality HMI touchscreen is available in a range of built-in I/O configurations. Showcased at Stand C04, the highly compact hardware profile with PLC, HMI and I/O built into one unit, offers powerful control capabilities in a highly space-saving configuration. The main features of the UniStream 7” include Ethernet/IP, VNC, FTP, web server, video + RTSP and SQL Client.

For more information contact Unitronics/Vision Automation, +27 11 826 7365, info@visionautomation.co.za, www.unitronics.co.za

Extended valve offering

Flow control specialist, Metso is showcasing the latest additions to its offering for the process industries, as well as the most comprehensive line of control valves available on the market today. Pay a visit to Metso at Stand E08 to learn how real-time plant data can give critical information about valve condition, thereby contributing to reliable flow control and helping to minimise unplanned downtime.

For more information contact Douglas McCrum, Metso South Africa, +27 11 961 4000, douglas.mccrum@metso.com, www.metso.com

PLCs and HMIs

Among the new state-of-the-art products on show at Stand E07 are Ana-Digi’s PLC range, which offers down to 8,5nS processing speeds and caters for systems up to 132 000 I/O, with full redundancy in processing and communication. Also on offer are Ex-certified HMIs that are compatible with other PLC makes and have brilliant picture definition and high brightness. In addition the excellent VFD range suits both LV and MV drives up to 10,4 MW at 11 kV.

For more information contact Ana-Digi Systems, +27 11 704 0144, info@anadigi.co.za, www.anadigi.co.za
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 management overview of assets

IS3 is showcasing the Integrated Command and Control Centre, which can be used as a management overview of assets. This features AVEVA Software Solutions, including Predictive Analytics, AVEVA Net, Control of Work, Wonderware System Platform and Intouch OMI, Avantis, Spiral Suite and AVEVA Engage. Visit Stand B06 to learn about the integration between System Platform OMI and various AVEVA solutions that function as an engineering and management overview system.

For more information contact Clarise Rautenbach, IS³ – Industry Software, Solutions & Support, +27 11 607 8473, clarise.rautenbach@is3.co.za, www.is3.co.za

In-situ gas analyser

Mettler Toledo Ingold’s GPro 500 TDL system is ideal for tough and challenging gas measurement applications and is designed for in-situ petrochemical processes and safety applications. TDL gas analysers are a significant improvement over extractive analysis systems. On show at Stand B10, the GPro 500 is packed with state-of-the-art technology and offers exceptional measuring performance and easy installation with almost no maintenance required.

For more information contact Darren Prinsloo, Microsep, +27 11 553 2300, darren.prinsloo@microsep.co.za, www.microsep.co.za

Process filtration solutions

National Separations is showcasing its range of liquid and gas filtration systems supplied by Amazon Filters at Stand B10. Amazon Filters is a global supplier of a comprehensive range of microfiltration filter cartridges and filter housings for critical and industry-specific applications. All products are manufactured in clean room conditions and are supplied with detailed product validation guides and technical support documentation.

For more information contact Luigi Settembrini, National Separations, +27 11 553 2300, luigi@natsep.co.za, www.natsep.co.za

High definition thermal images

Designed for measuring temperature profiles inside furnaces, the NIR-Borescope uses AMETEK Land’s cutting edge, near infrared imaging to create continuous, high definition thermal images. This allows operators to measure from any of 324 000 live data points, enabling highly specific optimisation of furnace temperatures and fuel usage. Thermal anomalies are easy to detect through continuous monitoring of all positions from the safety of the control room. The NIR-BOREscope is on view at Stand G15.

For more information contact Jerry Smits, Protea Automation Solutions, +27 11 719 5792, jerrys@protea.co.za, www.protea.co.za
A huge range of process instrumentation

Danntech Process Instrumentation’s recently updated Vodex-200A for measuring the velocity of detonation of explosives is on show at Stand F03. Danntech has more than 80 products in local production, with hundreds or variants. These include instruments for measuring froth thickness, mud level and solar radiation, with remote monitoring. The company also supplies signal converters, current and voltage transducers, splitters and signal isolators. Products are shipped to more than 12 countries.

For more information contact Mike Dann, Danntech, +27 11 792 1239, miked@danntech.com, www.danntech.co.za

Revolutionary new flowmeter

Bürkert is known for producing high quality process control equipment for the hygienic processing sector. The company has developed FLOWave, an innovative solution for liquid flow measurement, which has the potential to change the market significantly. Visit Stand C02 to find out how the revolutionary FLOWave design uses new technology based on Surface Acoustic Waves (SAW) to deliver unrestricted, highly accurate measurement, even in turbulent or laminar flow.

For more information contact Dave Strydom, Bürkert Fluid Control Systems, +27 11 574 6000, dave.strydom@burkert.com, www.burkert.co.za

Get your sensor data faster

VEGA’s Tools App enables sensor parameters and configuration settings to be read and adjusted via Bluetooth on any smartphone or tablet. They are easy to operate and all data is permanently available in real time. Visit Stands F01 and G01 to find out how sensors can be controlled wirelessly over distances of up to 25 metres and accessed directly, allowing the user to reach difficult to access or dangerous measuring points from a safe distance.

For more information contact Chantal Groom, VEGA Controls SA, +27 11 795 3249, chantal.groom@vega.com, www.vega.com
In an ever-changing world where digital transformation coupled with optimised computerisation and interconnectivity is prevalent, the need to remain knowledgeable about asset health in manufacturing is paramount. Visit Aveng ACS at Stand F16 to learn how teams are kept in touch with developing production issues that are dealt with holistically, thanks to advanced communication and analytical tools. All this information is available any time and from anywhere.

For more information contact Automation & Control Solutions, +27 11 249 6700, rfq@aveng-acs.com, www.aveng-acs.com

The Anderson-Negele L3 pressure and level transmitter is designed for measuring variable process pressure or hydrostatic applications in the hygienic industry. It can be viewed at Stand C13. Features include CIP-/SIP-cleaning at 135°C, state-of-the-art temperature compensation, and a user-friendly LC display.

In addition it is repairable in the field and reconfigurable through its modular design.

For more information contact John Basson, Morton Controls, 0861 000 393, sales@mortoncontrols.co.za, www.mortoncontrols.co.za

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www.mecosa.co.za
Omron South Africa is showcasing its fully simulated flexible production environments at Africa Automation Fair. Visit Stands C03 and D07 to see the integrated automation solutions designed to help turn today's manufacturing facilities into the factories of the future. The Omron product range on display includes the Sysmac Motion, PLC control and IPC, remote I/O, vision systems, safety and sensing products and robotics.

For more information contact Omron Electronics, +27 11 579 2600, info.sa@eu.omron.com, www.industrial.omron.co.za

Automation & Control Solutions is exhibiting the Machinery Manager connection to Plantweb Optics. This allows users to monitor the health of their machines and stay better informed of activities within Machinery Manager through Optics, even on their mobile phone. Visit Aveng ACS at Stand F16 to learn how this increased level of awareness enables users to perform exception-based analysis versus inspecting every piece of data collected. This allows for increased productivity and efficiency.

For more information contact Automation & Control Solutions, +27 11 249 6700, rfq@aveng-acs.com, www.aveng-acs.com

Concilium's focus is on test and measurement, enterprise network performance and testing, and professional broadcast. The company is a trusted provider of equipment, applications, services and solutions in these fields, all backed by complete localised support. With high end products from Keysight Technologies, Concilium has extensive industry specific solutions for aerospace and defence, automotive and energy, communications, government, education and service providers. Visit Stand C07 to find out more.

For more information contact Concilium Technologies +27 12 678 9200, niven.thamanna@concilium.co.za, www.concilium.co.za

The e-terrapowercom is a broadband power line modem with integrated switch designed for communications on medium and low voltage grids. Installation is easy and fast using existing power cables. It extends network coverage where radio frequencies cannot reach, such as underground chambers and substations. The dedicated owned network eliminates dependency on telecom providers, coverage problems and leased line fees, allowing full priority and control of the data channel. Visit Stand E04 to find out more about the e-terrapowercom.

For more information contact Karin Fouche, SSE, +27 12 663 4331, sales@sse.co.za, www.sse.co.za
Adroitly Africa’s Version Control and Backup software offering can assist in proactively reducing the risks associated with PLC, scada and HMI automation solutions that control a process. Pay a visit to Stand B09 to learn more about Adroitly Africa’s extensive software offering, which can collect, centralise, model, use and analyse data to improve operational performance.

For more information contact Grant Joyce, Adroitly Africa, +27 82 313 9047, grantj@adroitlyafrica.com, www.adroitlyafrica.com

Helukabel is showcasing its range of data, network and bus (DNB) products. On display at Stand B01 is a complete range of industrial cables as well as the related connecting equipment consisting of connectors, glands, cable protection and tools. Solutions for speeding up terminations and installations in the fields are also on offer.

For more information contact Doug Gunnewegh, Helukabel SA, +27 11 462 8752, doug.gunnewegh@helukabel.co.za, www.helukabel.co.za
Control costs with ABB drives

ABB is showcasing the ACS580 and ACS480 drives, which offer ready-made solutions for a wide range of applications. Along with energy savings, these drives contain enough functionality to replace various external control and monitoring devices, keeping overall project costs down through easiness, efficiency and productivity. Visit Stand H01 to find out how to control costs with ABB’s general purpose drives for effortless process control and reliable operation in various light industries.

For more information contact Ryan Chetty, ABB South Africa, 27 10 202 5033, ryan.chetty@za.abb.com, www.abb.com/drives

Industrial automation connectivity solutions

Jaycor specialises in industrial automation connectivity solutions covering an extensive range of signal transmission and power supply applications across multiple industries. Included in Jaycor’s portfolio are bus connectivity, industrial Ethernet, industrial cabinets (NEMA), instrumentation and control, industrial patch cords and optical fibre connectivity. Visit Stand E05 to see the REVConnect, a revolutionary RJ45 one-tool connection system for industrial Ethernet connectivity.

For more information contact Greg Pokroy, Jaycor International, +27 21 447 4247, greg@jaycor.co.za, www.jaycor.co.za

Data harvester for mobile machinery

The IDX Nexus Data Harvester connects disparate systems on heavy mobile machinery and other high value assets, allowing the sharing of real-time data between onboard systems. On show at Stand D20, it is compatible with common protocols such as Modbus, CAN, J1939, OPC and ASCII. Machine data can be logged locally or transferred in real time to a remote server for use in real-time data systems, or it can be stored for trending and analysis.

For more information contact Kyle Roos, Industrial Data Xchange, +27 11 548 9960, kyler@idx.co.za, www.idx.co.za

Indoor air quality management

Atlas Industrial Systems (AIS) is the sole supplier of the Honeywell, a first in mobile-supported, indoor air quality management. Regulated by ICASA, this system is user-friendly and has proven valuable in the home and work environment. The system can be managed remotely and information can be stored over long periods of time. Visit Stand J14 for expert advice on the Indoor Air Quality Detector.

For more information contact Atlas Industrial Systems, +27 83 302 0224, info@atlassystems.co.za, www.atlassystems.co.za
The radar sensor for bulk solids - VEGAPULS 69

Level measurement with bulk solids radar, making the impossible possible:

The most modern radar level technology and a frequency range of 80 GHz has made the new VEGAPULS 69 radar the sensor of choice for bulk solids industries. This sensor is capable of measuring poorly reflecting bulk solids over long ranges, in narrow, or even segmented vessels.

- Measuring range: up to 120 m
- Encapsulated antennas: reliable results even with buildup
- Very good focusing: simplifies the setup
- One device for all bulk solids:
  Standardization of sensors

For more information contact
Chantal Groom, VEGA Controls SA
+27 (0) 11 795 3249
chantal.groom@vega.com
www.vega.com
Yokogawa is showcasing the Synaptic Business Automation solution, which can transform business processes by optimisation of supply chains and operations and maximisation of asset performance. This is achieved through digitalisation and the connecting of data, people, processes and supply chains.

Visit Stand G03 to find out how with Synaptic Business Automation, Yokogawa can co-innovate with customers to create value in three ways – resilient operation, optimised production and business innovation – to create long-term growth, sustainable value and profitability.

For more information contact Yuvisti Ramgulam, Yokogawa South Africa, +27 11 831 6300, yuvisti.ramgulam@za.yokogawa.com, www.yokogawa.com/za

PREI instrumentation is a leading supplier and technical support specialist for on-line, portable and laboratory analysers for the potable, waste and industrial water markets, as well as rotating machinery monitoring, protection, prediction and control. Visit Stand D22 to learn about the company’s specialised instrumentation for general industry and R&D projects. This includes gas detectors, current transducers, Gaussmeters, hydrometers, thermometers, controllers, encoders and primary element transmitters.

For more information contact PREI Instrumentation, +27 11 867 5001, sales@prei.co.za, www.prei.co.za

RJ Connect provides industrial networking and automation solutions for enabling IIoT. However, industrial automation and control systems need to ensure facilities and services are safe and secure, as more connectivity creates more productivity but also a greater threat of cyberattack. Moxa has extended its defence-in-depth cybersecurity from the edge to the cloud across private and public networks. Visit Stand G09 to view Moxa’s secure industrial routers that provide an all-in-one firewall, VPN, NAT and switch functionality.

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

Specially developed for devices and machines which control limit values via weight measurements, Richter Scale’s SMART-2 is a small and simple weighing indicator with a rugged and durable housing. It is a reliable and cost-effective solution in electronic detection of and protection against overloads, for example on cranes and elevators. The unit is equipment standard with relays, RS232/485 and either WiFi or Bluetooth outputs for monitoring. Visit Stand F11 to find out more about the SMART-2.

For more information contact Gerard Pye, Richter Scale, +27 12 386 2060, gerard@richterscale.co.za, www.richterscale.co.za
Hanna Instruments, a specialist in analytical instrumentation, has on show at Stand C10 a range of instruments for the monitoring and control of pH in water conditioning and industrial effluent applications. These include neutralisation of acidic waste for environmental safety and public health, pH correction in boiler feed water to prevent scaling and corrosion of critical components, and pH control in the sanitation of pools and spas with chlorine.

For more information contact Renée Christoph, Hanna Instruments, +27 11 615 6076, renee@hanna.co.za, www.hanna.co.za
Swan is a global supplier of online analytical systems for the water industry. Visit Stand A08 to find out more about Swan’s product portfolio. This ranges from ultrapure water for pharmaceutical and semiconductor applications, to feedwater, steam and condensate monitoring, to potable and industrial water treatment, to swimming pool and sanitary water applications.

For more information contact Tshidi Kgokong, Swan Instrumentation South Africa, +27 11 396 3892, tshidi@swan.za.com, www.swan-analytical.co.za

Afrilek Automation is showcasing its systems integration solutions as well as the IEC 61439 motor control and distribution panels. The company’s robotics and AR/VR partners, Staubli and Iconics, are also present to demonstrate their cutting edge technology. Afrilek’s IIoT and networking capabilities, from cloud to on-site hosting solutions, are on show at Stand F13 – proof that the company is embracing change.

For more information contact Pregs Naidoo, Afrilek Automation, +27 11 372 9340, pregs@ afrilek.com, www.afrilek.com

iBOS Industrial is changing the way we maintain and respond to machine level events with technology that effectively manages real-time resources (people) from the machine level. Health and safety, maintenance calls, and reports with audit trails are all directly enforced from the machine. Motion Controls Systems is showcasing this technology at Stand G12 with live demonstrations.

For more information contact Shaun van der Merwe, Motion Control Systems, +27 11 450 3344, shaun@motioncontrolsystems.co.za, www.motioncontrolsystems.co.za
Mimic Components supplies specialised control components. As a leader in LED pilot lights and filament lamp replacements, the company is now able to accommodate clients with specific requirements in the area of operator interface (informing and warning). Visit Mimic Components at Stand D04 to see a wide range of high-quality electrical and electronic components, big digit displays, alarm displays and alarm annunciators.

For more information contact Bev Vivian, Mimic Components, +27 11 689 5700, bev@mimic.co.za, www.mimic.co.za

Ultrasonic sensors for level measurement and object detection

ifm – South Africa’s new M30 ultrasonic sensors for continuous level measurement and object detection are distinguished by their long range of up to eight metres. This makes them particularly suited for the detection of objects far away, or for continuous level monitoring of bulk materials or liquids, for example.

Visit ifm – South Africa at Stand D01 to view this brand new sensor.

For more information contact ifm – South Africa, 086 143 6772, info.za@ifm.com, www.ifm.com

PLC

I/O options include digital, analog, high speed, temperature, and weight measurement
Expand locally: up to 2048 I/Os
Expand remotely: via UniStream Ethernet-based I/O
Auto-tune PID, up to 64 independent loops
Recipes & data logging via data tables & sampling
MicroSD card - log, backup, clone & more
Function Blocks & Structs

HMI

Size: 5", 7"
High quality color touchscreen
Multi-language display
Built-in Alarm Screens
Media support: Video*, Audio* and PDF viewer
Multi-level password protection – easy and fast

Communication

Built-in ports:
1 Ethernet TCP/IP
1 USB host
1 Mini USB for programming

Add-on ports:
1 CANbus
1 RS485
1 RS232

Protocols:
MQTT Client
EtherNet/IP
MODBUS TCP
CANopen, CANlayer2, UniCAN
SNMP
BACnet, KNX and M-Bus via gateway
Message Composer for 3rd party protocols

UniStream® Built-in

General Features:

- SQL Client*
- Web Server*
- E-mail & SMS
- Remote access via VNC
- FTP server & client
- 3G Modem support

Vision Automation Pty Ltd
www.unitronics.co.za
info@visionautomation.co.za
Tel: +27 11 826 7365
The ProfiCloud system from Phoenix Contact enables easy secure communication and control of machines and systems across locations worldwide. On show at Stands E09-E10, this unique combination of the Profinet standard and ProfiCloud services opens up new possibilities for automation. Installation is quick as users build their automation network in their usual development environment. The ProfiCloud coupler is installed locally and used to connect the local Profinet network to the ProfiCloud via the Internet.

For more information contact Sheree Britz, Phoenix Contact, +27 11 801 8200, sbritz@phoenixcontact.co.za, www.phoenixcontact.co.za

Autorobix is a systems integrator and design company that mechanises and automates installations and processes. The company can provide robots from the vast Fanuc range of industrial robots, and is demonstrating the SCARA robot, Fanuc Selective Compliance Assembly Robot SR-3i. Also on display is the latest in artificial intelligent handling, the Mobile intelligent Industrial Robot (MiR). Visit Stand J16 to see how Autorobix can provide simple, effective and affordable automation solutions for your plant.

For more information contact Johan van Niekerk, Autorobix +27 13 932 4712, johan@autorobix.co.za, www.autorobix.co.za.

Westplex specialises in machine vision products and systems for visual inspection, and is a country-wide, one-stop source for a wide range of industrial machine vision products. Westplex represents world leaders in this field and provides a high level of technical support for machine vision and automation system integrators. On display at Stand D02 are Cognex vision sensors and systems, Allied Vision industrial digital cameras and AOS low cost slow motion cameras.

For more information contact Westplex, +27 11 787 0473, info@westplex.co.za, www.westplex.co.za
LSIS achieves Ex rating for HMI range

LSIS is rolling out Ex certification for its entire range of HMIs. These products now carry a rating which allows for a maximum pollution degree 2 level. Mounting the HMIs into an IP54 enclosure ensures full compliance with Ex nA, or in an IP66 cabinet, with Ex tc. Visit Stand E07 to see the high density colour displays which are compatible with virtually every make of PLC.

For more information contact
Ana-Digi Systems, +27 11 704 0144, info@anadigi.co.za, www.anadigi.co.za

Deep neural network accelerator

The Intel NCS 2 is an affordable small fanless computer vision and deep neural network (DNN) accelerator. Used by data scientists and academics, it is also ideal for developers and engineers looking at integrating computer vision and artificial intelligence capabilities into their IoT applications. Visit Stand G14 to see how the Intel NCS 2 also provides support for the popular open source Caffe and TensorFlow DNN software libraries.

For more information contact RS Components, +27 11 691 9300, sales.za@rs-components.com, www.rsonline.co.za

Miniature circuit breaker

On show at Stand J04, Entek Electric’s MCB models KB-6 and KB-10 are used to protect electrical circuits with a high level of reliability in industrial machines or residential buildings. Both models are widely in demand in many countries, due to the excellent quality products and a variety of application areas. The unique characteristics of MCBs KB-6 and KB-10 allow development of low voltage installation as easy and efficient as possible.

For more information contact
Claire Huang, Entek Electric, +886 952 960 324, clairehuang@entekelectric.com, www.entekelectric.com

Modular multi-channel temperature controllers

The TMH series modular multi-channel high performance temperature controllers from Autonics can be expanded without additional wiring for power or communication for up to 32 units and 128 channels. Visit Stand D18 to find out how the modular design allows flexible expansion depending on user requirements, with various option modules available. These include analog input/output modules, digital input/alarm output modules, CT input modules, PLC ladderless communication (RS-422/485) and Ethernet communication modules.

For more information contact
Autonics, +82 51 519 3232, sales@autonics.com, www.autonics.com

LSIS achieves Ex rating for HMI range

LSIS is rolling out Ex certification for its entire range of HMIs. These products now carry a rating which allows for a maximum pollution degree 2 level. Mounting the HMIs into an IP54 enclosure ensures full compliance with Ex nA, or in an IP66 cabinet, with Ex tc. Visit Stand E07 to see the high density colour displays which are compatible with virtually every make of PLC.

For more information contact
Ana-Digi Systems, +27 11 704 0144, info@anadigi.co.za, www.anadigi.co.za

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For more information contact RS Components, +27 11 691 9300, sales.za@rs-components.com, www.rsonline.co.za
DIN rail main AC-DC supply

The DRF960-24-1 DIN rail main AC-DC supply from TDK-Lambda is on show at Stand D06. The output is adjustable from 24–28 V using either the front panel potentiometer or an external source to compensate for blocking diodes or FETs in redundant configurations. Output current is rated at 40 A with a peak of 60 A for 4 seconds. Being only 110 mm wide, it frees up space for other DIN rail assemblies.

For more information contact
Tobie Muller, Accutronics,
+27 11 782 8728,
sales@accutronics.co.za,
www.accutronics.co.za

Multi-function PLC, HMI and I/O in a single 5” unit

On show at Stand C04 are the UniStream 5" and UniStream 5" Pro, which both support SNMP, VNC, FTP, SMS and email. The Pro version also offers a built-in webserver and SQL. Various built-in I/O configurations are available, offering digital, analog, high-speed and temperature I/Os. These are further expandable up to 2048 I/O points. Other features include built-in COM ports and additional add-on ports for serial and CANbus, CANopen, CAN Layer2, MODBUS and Ethernet/IP.

For more information contact
Unitronics/Vision Automation,
+27 11 826 7365,
info@visionautomation.co.za,
www.unitronics.co.za

Equipment for hazardous areas

Extech Safety Systems is showcasing Sensear digital communication and active listening headsets and earplugs at Stand E03. These are for use in high noise and hazardous environments. Sensear’s patented SENSTM technology simultaneously enhances speech and suppresses background noise so that users can verbally communicate, protect their hearing, and still maintain 360 degree awareness of their surroundings in noisy environments. The Sensear products complement Extech’s hazardous area smartphones and tablets.

For more information contact
Gary Friend,
Extech Safety Systems, +27 11 791 6000,
sales@extech.co.za,
www.extech.co.za
Fixed-mount IR cameras for research analysis

Fluke's new RSE300 and RSE600 infrared cameras are the first fully radiometric, fixed-mount cameras with advanced features including software plug-ins to easily analyse thermal data. Showcased at Stands F22-F23, they can continuously stream up to 60 frames of data per second, allowing for detailed monitoring of temperature patterns and variances. SmartView desktop software allows users to remotely focus the camera, auto-capture images, adjust level and span, and analyse infrared videos frame by frame.

For more information contact Comtest, +27 10 595 1821, sales@comtest.co.za, www.comtest.co.za

All-in-one mobile network analyser

On show at Stand D20, the PROCENTEC Mercury from Industrial Data Xchange is an all-in-one mobile analyser that gives the user the ability to troubleshoot, maintain and monitor both Profinet and industrial Ethernet networks. It accounts for mixed architecture facilities that incorporate older networks as well as industrial Ethernet networks. A robust tablet running the new software package, OSIRIS offers remote and wireless connection capabilities, providing an easy to interpret solution that offers mobility from anywhere.

For more information contact Kyle Roos, Industrial Data Xchange, +27 11 548 9960, kyler@idx.co.za, www.idx.co.za

A range of level sensors

GHM Messtechnik has available the Val.co range of affordable and effective level sensors that have application across all sectors of industry, especially tank building. The range includes small float switches, Linear-LC, limit level switches for side installation, simple or double contact limit level switches and multipoint devices. These robust devices perform in the most demanding conditions and are approved for ATEX Exd – Ex i a, EAC, and for naval use. Visit Stand C09 to find out more.

For more information contact Jan Grobler, GHM Messtechnik South Africa, +27 11 902 0158, info@ghm-sa.co.za, www.ghm-sa.co.za
Pyrometer with automatic spot finder

The Optris infrared Xi series is a fusion between a robust, compact pyrometer and an advanced IR camera. The integrated spot finder function enables accurate temperature measurements in moving objects without having to readjust the sensor. Visit Stand C14 to find out more about its features, which include autonomous sensor adjustment and remote focusing, opening up new possibilities for multisensor applications.

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

Next generation Layer 3 Ethernet backbone

The Hirschmann DRAGON MACH4500 Layer 3 Ethernet backbone is ideal for applications that require high bandwidths and reliable data transfer. This flexible, future-oriented solution supports redundant internal power supplies to increase device availability, making low cost future expansion easy. Visit IAC at Stand F09 to find out how engineers in data-rich industrial environments can transition from 1 Gigabit networks to 2.5 and then to 10 Gigabit as network bandwidth requirements increase.

For more information, contact
Daniel Nyange, IAC,
+27 12 657 3600,
sales@iacontrol.co.za, www.iacontrol.co.za

New automated drive analyser

Fluke’s new MDA-500 Series is designed to easily test and troubleshoot typical problems on three-phase and single-phase inverter type motor drive systems. These are on exhibit at Stands F22-F23. The on-screen information and step by step setup guidance allow for easy configuration of the analyser, delivering the drive measurements needed to make better, faster maintenance decisions.

For more information contact Comtest,
+27 10 595 1821, sales@comtest.co.za,
www.comtest.co.za

Infrared cameras with leading edge technology

The Fluke Ti450 and Ti480 PRO infrared cameras capture and display smaller temperature differences that visualise and diagnose issues, making it easier for technicians, engineers and electricians to get to the root cause of problems faster. These infrared cameras are fine-tuned to identify hot spots, cold spots and apparent surface temperature differentials with a higher degree of confidence. They are on view at Stands F22-F23.

For more information contact
Comtest, +27 10 595 1821,
sales@comtest.co.za,
www.comtest.co.za
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Cape Town Branch
Tel: +27 21 528 7600

Durban Branch
Tel: +27 31 902 3815

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Tel: +27 13 752 8007

Port Elizabeth Branch
Tel: +27 41 372 2244/6

SEW-EURODRIVE (Pty) Ltd
Executive House
Cnr. Adcock Ingam & Aerodrome
Roads, Aerotien Ext 2
Johannesburg
P.O. Box 99004
Bergenham 2013
Tel: +27 11 249 7080
Fax: +27 11 249 7289

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4TH-6TH JUNE 2019

AFRICA AUTOMATION FAIR

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