# Table of Contents

## Rockwell Automation Products and Solutions

### Essential Components
- **42AF RightSight™ M30 Photoelectric Sensors** ................................................................. 5  
- **48CR Code Reader** ............................................................................................................. 6 
- **194U Non-fused Rotary Disconnect Switch** ................................................................. 7 
- **Allen-Bradley® Bulletin 1492-P Push-in Terminal Blocks** ........................................... 8  
- **Allen-Bradley® SMC-50 with Internal Bypass** ................................................................. 9  
- **Bulletin 154 Starting Torque Controllers** ...................................................................... 10 
- **Large Frame IEC & NEMA Contactors** ......................................................................... 11 

### Integrated Architecture
- **1756 Compute Module** .................................................................................................... 12 
- **1756-EN2TP Parallel Redundancy Protocol (PRP) Module** ........................................... 13 
- **Compact GuardLogix® 5380 SIL2/PlD Controller and COMPACT 5000™ Safety I/O Modules** ................................................................. 14  
- **CompactLogix™ 5480 Controller** .................................................................................. 15  
- **Connected Components Workbench™ Software R11.00** .............................................. 16  
- **FactoryTalk® Network Manager Software** .................................................................... 17  
- **FLEX 5000™ I/O** .............................................................................................................. 18  
- **GuardLogix® 5580 Controller** ......................................................................................... 19  
- **Kinetix® 5700 Servo Drive with Advanced Safety** ...................................................... 20  
- **Micro870™ Controller** .................................................................................................. 21  
- **MobileView™ Tethered Operator Terminal and IP65 Junction Boxes** ....................... 22  
- **PanelView™ 5310 Graphic Terminals** ..................................................................... 23  
- **Studio 5000® Design Environment** ......................................................................... 24 
- **VersaView® 5000 Family of Thin Clients, Industrial PCs and Monitors** ............... 25

### Intelligent Motor Control
- **Allen-Bradley® PowerFlex® 750-Series AC Drives Available in 200–240 Voltages** ........ 26  
- **Allen-Bradley PowerFlex® DC Field Controller** .......................................................... 27  
- **New Safety Options for PowerFlex® 755 and 755T Drives** ....................................... 28  
- **PowerFlex® 6000 Drive Enhanced Features** ............................................................... 29

### Modernization
- **Modernization Service Agreement** ............................................................................. 30
# Table of Contents continued

## Safety Solutions
- **442L SafeZone™ 3 CIP Safety Laser Scanner** ................................................................. 31
- **GuardLink™ and Dual GuardLink Guardmaster Safety Relay** ............................... 32
- **GuardShield™ 450L-B Safety Light Curtain** ................................................................. 33
- **Lifeline™ 5 Cable Pull Switch** ....................................................................................... 34

## Services
- **Predictive Maintenance Service** ................................................................................... 35

## The Connected Enterprise Industries Pavilion
- **FactoryTalk® Analytics for Machines** ........................................................................... 36
- **FactoryTalk® Quality 4.0 Application** ............................................................................ 37
- **FactoryTalk® Warehouse Management Application** ................................................. 38
- **OptiLift™ Intelligent Net Oil Computer (iNOC)** ............................................................ 39
- **OptiLift™ Rod Pump Controller (RPC)** .......................................................................... 40
- **OptiLift™ Virtual Flowmeter (VFM)** .............................................................................. 41
- **PharmaSuite® 8.3 MES** .................................................................................................. 42
- **PlantPax® System Release** ............................................................................................ 43
- **Standard Control Panel** ................................................................................................. 44

## PartnerNetwork™ Products and Solutions
### Data-Linc Group
- **High-Speed Modem HSM800E/IP65** ............................................................................ 45

### Emulate3D, Ltd.
- **Emulate3D Controls Testing** ....................................................................................... 46

### Endress+Hauser
- **Micropilot FMR6x Radar Level Sensor** ....................................................................... 47
- **Proline 300/500 Coriolis Flowmeters** .......................................................................... 48

### eRPortal Software & Services
- **Notification and CbM for FactoryTalk® View** ............................................................... 49

### Fluke Corp.
- **Fluke T6 Electrical Testers** .......................................................................................... 50
# Table of Contents continued

**Grace Engineered Products, Inc.**  
GraceSense™ Hot Spot Monitor (HSM) .......................................................... 51

**Hammond Power Solutions**  
HPS Millennium™ E-Medium Voltage Distribution Transformer .................. 52

**Littelfuse Inc.**  
AF0100 Series - Arc-Flash Relay ................................................................. 53  
PSR Series High-Speed Square Body Fuses .................................................. 54

**Molex**  
High Availability Fiber Optic Networking ................................................... 55  
Industrial Wireless Modems ....................................................................... 56

**Panduit Corp.**  
SynapSense® 900 MHz Sensor: Vibration ..................................................... 57

**POSITAL Fraba Inc**  
POSITAL Magnetic Kit Encoder .................................................................. 58

**Softing (OLDI)**  
OPC UA MDIS ControlLogix® Module ....................................................... 59

**Spectrum Controls Inc.**  
PowerFlex® Universal Analog Input Option Card ......................................... 60  
ControlLogix® 1756-RMS-SC Power Monitor Module .................................. 61  
Universal Industrial Gateway ..................................................................... 62

**STOBER Drives, Inc.**  
ATEX Certified Gearboxes ......................................................................... 63
42AF RightSight™ M30 Photoelectric Sensors

Features and Benefits:
- Robust right angle housing with 30 mm threaded nose and universal 18 mm threaded base for maximum installation flexibility
- 360 degree highly visible status indicator LEDs
- DC only and Universal (AC/DC) available models
- Dual Auto PNP/NPN helps streamline inventory by reducing the amount of SKUs needed to stock
- Transmitted Beam (80 m) and Polarized Retroreflective (10 m) Sensing Modes
- Embedded IO-Link 1.1 communications protocol offered in all sensing modes enables customers to access enhanced diagnostic feature
- Firmware upgrade and embedded IODD ready
- IP67, 1,200 PSI and IP69k rated enclosure

Product Description:
The 42AF RightSight™ M30 family of photoelectric sensors offers long range and high performance general purpose sensing in a robust, easy to install flexible mounting package. These sensors are ideal for applications where simplified installation and maintenance are required. RightSight™ M30 sensors can be mounted against a surface or can be installed using the threaded 18 mm base mounting options.

Designed to withstand the rigors of food processing and material handling environments, the RightSight™ M30 standard models can withstand repeated 1200 psi and IP69K high-pressure washdowns.

Available for Sale: January 30, 2018

Contact Information:
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Learn more! Visit the Essential Components Booth (#607) at the 2017 Automation Fair® event.
48CR Code Reader

Features and Benefits:
• Smallest industrial reader with EtherNet/IP™: 44.45 mm (1.75 in) x 25.4 mm (1.00 in) x 44.45 mm (1.75 in)
• High-end performance in a compact design
• Provides clear, high-speed scanning on 1D/2D codes (Including difficult DPM (Direct Part Marked) codes)
• 1.2 MP resolution available
• 0.050 – 1.0 m range (lens and target dependent)
• 16 LED integrated illumination (white and red)
• Simple setup button
• Connectors:
  • Power and I/O – M12 x 8
  • EtherNet – M12 x 4

Product Description:
The Allen-Bradley® 48CR with EtherNet/IP is a compact, high-performance code reader capable of solving simple label decodes and difficult low contrast DPM decodes. The 48CR easily scans 1D/2D codes with high-speed accuracy in automotive and general manufacturing environments. The 48CR features include 1.2 MP resolution, 0.050 – 1.0 m range, 16 LED integrated illumination, simple setup button, and status LEDs.

Available for Sale: January 2018

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Learn more! Visit the Essential Components Booth (#607) at the 2017 Automation Fair® event.
194U Non-fused Rotary Disconnect Switch

Features and Benefits:
- Small footprint – one of the smallest on the market – saves up to 50% panel space
- Can be used as main panel disconnect switch (UL98), or as at-motor disconnect switch (UL508)
- NFPA79 compliant handle for robust lock-out/tag-out
- Current rating:
  - UL 30-125A
  - IEC 40-160A
- 3- or 4-pole, base or front mount options available
- Interrupting capacity up to 200 kA allows a single unit to address many applications
- Provides efficient, reliable supply of power and isolation

Product Description:
Designed for global applications, the Allen-Bradley® 194U non-fused disconnect switch offers one of the smallest UL98 disconnects on the market. Suitable as the main disconnecting means for a panel, the 194U is available in front or base mounting styles together with side operation making the disconnect adaptable to various customer applications.

When mounted within an enclosure, the 194U disconnect switches are available with a range of rotary-style handles to comply with global requirements. Enclosure and door interlocks provide an additional level of operator safety by helping to prevent the handles and doors from being opened while the disconnect switch is energized.

Available for Sale: September 1, 2017

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Learn more! Visit the Essential Components Booth (#607) at the 2017 Automation Fair® event.
Allen-Bradley® Bulletin 1492-P Push-in Terminal Blocks

Features and Benefits:

- Mitigates the source of unreliable connections while slashing wiring time
- Actuators allow for quick and safe wire installation for all conductor types.
- Easy verification testing with individual terminal test points.
- Multiple distribution configurations available with two jumper channels.
- Compatible with Allen-Bradley® ClearMultiprint™, ClearPlot™ and ClearMark™ marking systems.

Product Description:
The new Allen-Bradley® Bulletin 1492-P Push-in terminal blocks slashes installation time over screw or tension clamp style terminal blocks when using solid conductors or ferrules. The clamping action is resistant to vibration for improved connection reliability. These products are available in a range of universal, power distribution and sensor styles and are compatible with Allen-Bradley® ClearMultiprint™, ClearPlot™ and ClearMark™ marking systems.

Available for Sale: November 14, 2017

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Learn more! Visit the Essential Components Booth (#607) at the 2017 Automation Fair® event.
Allen-Bradley® SMC-50 with Internal Bypass

Features and Benefits:

- Provides the advanced soft-starting options of the SMC-50, with the built-in bypass power structure of the SMC-Flex line
- In applications where a motor will run for extended periods, the bypass mode reduces energy use and heat buildup.

Product Description:
Customers who wish to take advantage of the flexibility and performance of the SMC-50 soft starter, but have applications where the motor will be running for extended periods, can save energy and reduce heat build up with the new SMC-50 Soft Starter’s internal bypass option, providing the advanced soft-starting options of the SMC-50, with the built-in bypass power structure of the SMC-Flex line.

Available for Sale: December 1, 2017

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Learn more! Visit the Essential Components Booth (#607) at the 2017 Automation Fair® event.
Bulletin 154 Starting Torque Controllers

Features and Benefits:

• Torque control of single phase motors up to 3 kW/3 Hp @ 240 VAC
• Torque control and soft starting of three phase motors up to 15 kW/20 Hp
• Cost-effective solution for soft-starting
• Wiring module to connect to 140M-C2E MPCB

Product Description:
Bulletin 154 Starting Torque Controllers provide a cost-effective solution for less demanding soft-starting and torque-limiting applications for single and three phase motors up to 25 amps.

Available for Sale: November 14, 2017

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Learn more! Visit the Essential Components Booth (#607) at the 2017 Automation Fair® event.
Large Frame IEC & NEMA Contactors

Features and Benefits:

- Smaller size and footprint
- Universal electronic AC/DC coil
- PLC friendly interface (10 mA @ 24V DC)
- IEC solutions to 2650 A
- Safety solutions to 750 A
- NEMA Ratings to Size 8
- SCCR Coordination with 140G / 140MG
- Direct connect kits for 140G and solid state overloads
- Expanded certifications

Product Description:
Rockwell Automation is introducing an expanded line of Allen-Bradley® Bulletin 100 IEC contactors that will also be available as NEMA rated Bulletin 300 products up to Size 8. This contemporary product line addresses a wide range of global certifications and will simplify product selection. It will be compatible with existing 140G/140MG products, including SCCR coordination. These products will also take less panel space for given ratings, which can reduce enclosure costs.

Available for Sale: December 1, 2017

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Learn more! Visit the Essential Components Booth (#607) at the 2017 Automation Fair® event.
1756 Compute Module

Features and Benefits:
- Provides computing capability for existing ControlLogix® systems.
- Offers high-speed access to the controller over the ControlLogix® backplane.
- Increases productivity by accessing data in real-time at the source, allowing for quicker, more informed decisions.
- Offers flexibility with embedded Windows 10 IoT Enterprise systems.

Product Description:
The ControlLogix® 1756 Compute Module provides high-speed computing functionality with access to the ControlLogix® processor via the backplane. For example, customers can now collect data at the source to make real-time decisions and increase productivity. Customers can create custom applications within the Windows 10 IoT and use third-party applications to enhance their automation system.

Available for Sale: December 1, 2017

Contact Information:
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Milwaukee, WI

Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
1756-EN2TP Parallel Redundancy Protocol (PRP) Module

Features and Benefits:

• Provides a redundant network infrastructure for high availability to help minimize the risk of downtime
• Offers two ports and are attached to two separate networks of similar topology
• IEC 62439-3 compliant to mitigate network switchover time

Product Description:
Uptime is critical. The 1756-EN2TP Parallel Redundancy Protocol (PRP) module is a communications device that uses a layer 2 protocol to allow EtherNet/IP PRP devices to communicate on redundant LANs. A redundant network infrastructure provides high availability to help minimize unplanned downtime.

Available for Sale: August 28, 2017

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
Compact GuardLogix® 5380 SIL2/PLd Controller and COMPACT 5000™ Safety I/O Modules

Features and Benefits:
• Enhances machine performance using high-speed I/O and motion control via the Dual Gb embedded Ethernet port
• Provides flexibility through a dual configurable IP port for Device Level Ring and Linear topologies or for multiple IP addresses
• Reduces machine complexity and architecture for applications that only require SIL2/PLd certification
• Enables high performance for safety requirements for either local or remote I/O and allows you to optimize your safety tasks for machine productivity

Product Description:
The Compact GuardLogix® 5380 controller helps enable faster performance, capacity, productivity and security while providing up to SIL2/PLd safety to help meet the growing demands of smart machines and equipment for manufacturing. The COMPACT 5000™ safety I/O modules serve as local and remote safety I/O for the Compact GuardLogix® 5380 controller and as remote safety I/O for the ControlLogix® 5580 controller.

Available for Sale: February 28, 2018

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
CompactLogix™ 5480 Controller

Features and Benefits:
• Provides high-performance control and computing functionality in a single hardware platform.
• Offers the ability to run third-party applications in parallel with Logix real-time control.
• Increases performance capability with support for up to 31 local COMPACT 5000™ I/O modules.
• Offers simplified architectures and a smaller machine footprint with built-in communications, peripheral connectivity, integrated DisplayPort and multiple high-speed EtherNet/IP ports.

Product Description:
The Allen-Bradley® CompactLogix™ 5480 Controller offers the benefits of Logix control with Windows®-based computing. With a commercially available CPU and a Windows 10 IoT Enterprise operating system running independently of the Logix control engine, it provides a high-performance architecture with the ability to run 3rd-party applications.

Available for Sale: July, 2018

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.

Return to Table of Contents
Connected Components Workbench™ Software R11.00

Features and Benefits:
• Enhanced user experience with closer integration to Studio 5000 Logix Designer® Software
• Improved themes, shortcuts, instruction names and workflow to look similar to Studio 5000 Logix Designer Software
• Flexibility to copy and paste ladder logic between Connected Components Workbench™ software, RSLogix 500® and Studio 5000 Logix Designer Software
• Allows users who are familiar with Logix controllers and Studio 5000 Logix Designer Software to use Micro800® controllers and Connected Components Workbench Software for their standalone application
• Additional device support for Micro870™ controller, E200™ Electronic Overload Relay, GuardShield™ 450L-E Light Curtain and PowerFlex® 755T drive

Product Description:
The new Release 11.00 for Connected Components Workbench™ Software will feature a look and user experience that closely resembles Studio 5000 Logix Designer® Software. This allows users who are familiar with Studio 5000 Logix Designer Software to program their Logix controllers to easily switch to Connected Components Workbench Software to program their Micro800 controllers for their standalone machines, without having to pay for additional software and reducing the time needed to learn a new software. This new integration includes color schemes, sounds, default functions, shortcuts, instruction names and workflow. Programming time can also be shortened substantially with the new code-sharing feature, which allows users to copy and paste ladder logic from Studio 5000 Logix Designer Software to the Connected Components Workbench Software.

Available for Sale: February, 2018

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
FactoryTalk® Network Manager Software

Features and Benefits:
• Generates an overall topology and a device-centric view of plant floor assets for increased network visibility
• Identifies plant floor assets using SNMP, PROFINET and CIP™ protocols for automatic inventory discovery
• Captures managed switch level alarms and events in real-time for more precise troubleshooting
• Provides historical data retention for analysis and more informed decision-making
• Offers configuration templates and plug and play support of Stratix® managed switches for simplified deployment and maintenance

Product Description:
FactoryTalk® Network Manager software helps give you more insight into the performance of your network operations by providing visibility to your devices connected on the plant floor. It allows you to view your network topologies and manage switch-level alarms in real-time to improve troubleshooting time. Experience a new tool that helps you monitor the health of your network and reduce downtime to help improve overall automation equipment efficiency.

Available for Sale: December 01, 2017

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
FLEX 5000™ I/O

Features and Benefits:
- 1GB EtherNet/IP™ connectivity for higher speed and increased bandwidth
- Architecture options with network support for 2 Copper or 2 Fiber Ports (SFP); Star, Ring, PRP topologies
- Flexible module densities: up to 32 channel digital input/output, up to 8 channel analog input/output
- Safety I/O modules rated SIL3, PLe, and Cat. 4. Mix-and-match standard and safety modules on same I/O bank.
- Easy snap-in installation during operation via Removal and Insertion Under Power (RIUP)
- Built for extreme environments: Class G1, G2, G3; hazardous areas: Class 1, Div. 2, Zone 2 Groups A, B, C, D, E, F; ability to operate at -40...70°C

Product Description:
FLEX 5000™ I/O is a reliable and flexible distributed I/O solution, allowing you to choose your I/O to meet your operational needs. FLEX 5000™ I/O enhances communication with 1GB EtherNet/IP™ connectivity, offering higher speed and increased bandwidth. To provide flexibility in your network architecture, FLEX 5000™ I/O includes 2 copper or 2 fiber ports (SFP) and support for Star, Ring and PRP topologies. Mix-and-match a wide range of standard and safety I/O modules with FailSafe safety modules rated up to SIL3, PLe, Cat. 4. Designed for use in a broad range of applications, the new FLEX 5000™ I/O is capable of operating in a temperature range of -40...70°C.

Available for Sale: TBD, 2018

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
GuardLogix® 5580 Controller

Features and Benefits:
• Provides scalable safety with SIL2/PLd and SIL3/PLe options to optimize machine design
• Enables faster system performance and capacity for safety required system
• Offers flexibility through a high performance embedded EtherNet/IP™ port for integrated safety architectures
• Provides advanced safety features for integrated motion systems on EtherNet/IP™

Product Description:
The GuardLogix® 5580 Controllers are the new high-performance members of the safety ControlLogix® family. Customers now have the ability to right size their safety architecture based on safety needs and optimize the investment on their safety system. The controller, and controller plus safety partner, offer up to SIL2/PLd and SIL3/PLe certification, respectively.

Available for Sale: February 28, 2018

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
Kinetix® 5700 Servo Drive with Advanced Safety

Features and Benefits:
• Provides advanced safety features with Integrated safety on EtherNet/IP™ with the GuardLogix 5580 and Compact GuardLogix 5380
• Improved flexibility with unlimited set points that can be adjusted during runtime.
• Higher availability through seamless integration of safe monitoring capabilities

Product Description:
In addition to the simplicity, power and space savings provided by the Kinetix® 5700 servo drive, advanced safety features are now available. Integrated safety functions enable powerful safety solutions when used with the GuardLogix 5580 and Compact GuardLogix 5380. Machinery can remain active while simultaneously being safely monitored, which results in a smarter and more productive machine.

Available for Sale: October 01, 2017

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
Micro870™ Controller

Features and Benefits:
• Same form factor as Micro850® 24-point controller
• Double the program and data memory of Micro850 controller – typical program can be up to 20Ksteps with 40KB of data
• Expandable with up to 8 expansion I/O modules
• Customizable with up to 3 plug-in modules for additional I/O or serial communications
• Embedded communications options with USB, Serial port and Ethernet. Ethernet protocols include EtherNet/IP™, Modbus TCP/IP and Open Sockets programming. Serial protocols include Modbus RTU and ASCII
• Embedded motion capabilities with 2 axes of motion using 100kHz Pulse Train Output, High Speed Counter and PLCopen Motion instructions
• Requires Connected Components Workbench™ software Release 11.00

Product Description:
Machine builders and end users looking for customizable, cost-effective and space-saving solutions with just the right performance often choose the Micro800® controller family. The all-new Micro870™ controller improves scalability of the Micro800® controller platform with double the memory capacity of Micro850® controller and supports up to eight (8) expansion I/O modules. The Micro870 controller brings the benefits of Micro800 controller platform to your larger and more complex standalone applications. Achieve more for your standalone application with the all-new Micro870 controller today.

Available for Sale: February, 2018

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
MobileView™ Tethered Operator Terminal and IP65 Junction Boxes

Features and Benefits:
• Illuminated e-stop and thin client options provides flexibility for your mobile requirements
• Junction box provides enhance mobility by allowing an operator to move freely along a manufacturing line
• Box ID provides location awareness to tell the MobileView terminal to its manufacturing line location
• On-Machine™ connectors provide connectivity variants for increased flexibility

Product Description:
The new IP65 junction box for use with second generation MobileView™ tethered operator terminals provides a smart, On-Machine™ solution for visualization applications requiring mobility including thin client applications. Safety bridging allows the MobileView terminal to be unplugged from the IP65 junction box without tripping the e-stop circuit, making it easier for operators to move around the facility and increasing uptime. Box ID feature provides location awareness, which allows the MobileView terminal to know where on the manufacturing line it’s located.

Available for Sale: September 15, 2017

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
PanelView™ 5310 Graphic Terminals

Features and Benefits:
• A scalable option in the PanelView™ 5000 family to provide flexibility for machine builders

• Same seamless Logix integration and ease of use as the rest of the PanelView 5000 family using Studio 5000 View Designer® design environment

• Touch-only screens are available in 6”, 7” widescreen, 9” widescreen and 12” widescreen, providing a range of sizes to best suit small applications

Product Description:
The PanelView 5310 graphic terminal is the latest edition to the PanelView 5000 line of graphic terminals. It provides the same seamless integration into Logix using the Studio 5000 View Designer® design environment, while being specialized for small application needs. The touch-only screens are available in 6”, 7” widescreen, 9” widescreen and 12” widescreen, providing the flexibility to choose the best size for the application.

Available for Sale: December 01, 2017

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
Features and Benefits:
• An updated user interface provides a common look across all Studio 5000 applications
• Studio 5000 Logix Designer® has improved workflows for multi-monitors, tabbed views, and updates to several programming languages to optimize programming time
• Studio 5000 Architect® now offers AutomationML capabilities for bidirectional exchange of data between Studio 5000 and engineering tools for robust data exchange
• Studio 5000 View Designer® now includes data logging and trending for easier troubleshooting and emulation capabilities for virtual commissioning to improve development time
• Studio 5000 Application Code Manager now offers a Class View to easily see the library content that spans your Logix content

Product Description:
The Studio 5000® design environment combines engineering and design elements into one standard framework that enables optimized productivity and reduced commissioning time. The latest release of Studio 5000 includes a new, modern user interface that provides a common look across all Studio 5000 applications. One of the main applications, Studio 5000 Logix Designer, now includes a modern interface but also improved workflows for multi-monitors, tabbed view capabilities, and significant updates to multiple programming languages to help increase design time. Additionally, Studio 5000 Architect now offers AutomationML capabilities for bidirectional exchange of data between Studio 5000 and engineering tools for robust data exchange. Studio 5000 View Designer® now has emulation capabilities for virtual commissioning and data logging and trending for easier troubleshooting. The Studio 5000 V31 software release is focused on delivering automation productivity, ease of use and simplified workflows.

Available for Sale: December, 2017

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
VersaView® 5000 Family of Thin Clients, Industrial PCs and Monitors

Features and Benefits:

- Open architecture supports modern software and operating systems for flexible, customized applications

- Edgeless, all glass, ten point multi-touch screen available in 12 in., 15 in., 19 in., and 22 in. sizes

- Super capacitor instead of a battery allows for reduced maintenance

- Thin clients can use ThinManager® software to centrally manage and secure multiple devices

- Works with FactoryTalk® View Site Edition to meet 21CFR Part 11 requirements in regulated industries

Product Description:
The VersaView® 5000 portfolio is an open architecture, PC-based family of industrial computers. Product options include panel and box thin clients, panel and box industrial PCs, and monitors. The family features an edgeless, all glass, ten point multi-touch screen to keep the product cleaner with better usability, in the following display sizes: 12 in., 15 in., 19 in., and 22 in. The thin clients options are used for displaying content delivered from a remote ThinManager server. You can have multiple thin clients set up across your plant or facility with various roles with the convenience of having them all maintained by ThinManager. The VersaView 5000 portfolio also works with FactoryTalk® View Site Edition allowing it to meet 21CFR Part 11 in regulated industries.

Available for Sale: August 01, 2017

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Learn more! Visit the Integrated Architecture Exhibit (#2113) at the 2017 Automation Fair® event.
Allen-Bradley® PowerFlex® 750-Series AC Drives Available in 200–240 Volts

Features and Benefits:
• The PowerFlex 753 and 755 AC drives are now available in global voltages ranging from 200V to 690V
• New 200–240V drives have a power range of 0.37–132 kW / 0.5–200 Hp and allow drives to be used in a wider range of applications
• The complete PowerFlex 750-Series drive family offers a power range of 0.5–2000 Hp / 0.37–1500 kW
• Other drive features:
  • Predictive diagnostics help reduce unplanned downtime
  • Optional dual-port EtherNet/IP™ module
  • Safe Torque Off and Safe Speed Monitor options help protect personnel and equipment

Product Description:
The Allen-Bradley PowerFlex 753 and PowerFlex 755 AC drives now offer global voltages from 200V to 690V, allowing drives to be used in a broader range of applications. New 200–240V drives have a power range of 0.37–132 kW / 0.5–200 Hp and increase the span of the complete PowerFlex 750-Series drive family to 0.5–2000 Hp / 0.37–1500 kW. Designed to offer application flexibility, connectivity and productivity, the drives feature a slot-based hardware architecture with the adaptability to select up to five option modules for safety, feedback, communications and I/O. Safe Torque Off and Safe Speed Monitor options help protect personnel and assets while allowing a quick return to operation after a safety event. Predictive diagnostics help reduce unplanned downtime. The drives support multiple network protocols, with the PowerFlex 755 drive featuring a built-in EtherNet/IP port. A dual-port EtherNet/IP option module for both drives provides topology flexibility.

Available for Sale: September 29, 2017

Contact Information:
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Learn more! Visit the Intelligent Motor Control Exhibit (#2139) at the 2017 Automation Fair® event.
Allen-Bradley® PowerFlex® DC Field Controller

Features and Benefits:
• Provides three-phase, four quadrant (reversing) DC motor or generator field control

• Used for standalone DC motor field control applications or in conjunction with a PowerFlex DC Digital drive or PowerFlex DC Stand-alone Regulator (SAR)

• In stand-alone mode, the PowerFlex DC Field Controller provides power to a DC motor field with a fixed reference by using fixed I/O

• Can also control electromagnets

• Expands the Allen-Bradley PowerFlex DC drive offering
  • New PowerFlex DC field controller
  • Established PowerFlex DC drive with a power range of 1.2 – 1044 kW / 1.5 – 1400 Hp in voltages from 200 – 690V

Product Description:
The PowerFlex® DC Field Controller provides three-phase, four quadrant (reversing) DC motor or generator field control. It can be used for standalone DC motor field control applications or in conjunction with a PowerFlex DC digital drive or PowerFlex DC Stand-alone Regulator (SAR). A fiber-optic interface circuit board provides transmission of the reference, feedback and status signals between the drive or regulator and the field controller. In the stand-alone mode, the PowerFlex DC Field Controller provides power to a DC motor field with a fixed reference by using fixed I/O. The PowerFlex DC Field Controller can also control electromagnets. The addition of this new product expands the PowerFlex DC drive offering which also includes the established PowerFlex DC drive which has a power range of 1.2 – 1044 kW / 1.5 – 1400 Hp in voltages from 200 – 690V.

Available for Sale: November 15, 2017

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Learn more! Visit the Intelligent Motor Control Exhibit (#2139) at the 2017 Automation Fair® event.
New Safety Options for PowerFlex® 755 and 755T Drives

Features and Benefits:
• Safe Torque Off option module now offers safety functionality in integrated motion applications
  • For PowerFlex 755 drives on EtherNet/IP™ (firmware v14 and up)
  • Safety is done in the controller safety task for greater flexibility
  • Safety functionality is similar to Kinetix® servo drives for common user experience
  • Requires version 31 of Studio 5000 software
• New Safe Monitoring option module provides networked safety for PowerFlex 755 and PowerFlex 755T AC drives
  • Supports eight EN61800-5-2 safety functions: STO, SS1, SS2, SOS, SLS, SDI, SBC, SLP
  • Requires EtherNet/IP connectivity and Studio 5000 version 31 software

Product Description:
Two option modules provide new safety functionality for PowerFlex® 755 and PowerFlex 755T AC drives. The enhanced networked STO option module now provides PowerFlex 755 drives on EtherNet/IP with Safe Torque Off using integrated motion instructions – in addition to standard I/O mode. Use of motion instructions provides greater flexibility and a common user experience for customers with both PowerFlex 755 VFDs and Kinetix® servo drives. The commonality now extends to safety applications as well. Requires Studio 5000® version 31 software.

In addition, a new Safe Monitoring option module is available for PowerFlex 755 and PowerFlex 755T drives. It supports eight networked EN61800-5-2 safety functions: STO, SS1, SS2, SOS, SLS, SDI, SBC, SLP. Four general purpose safety inputs and two safety outputs are embedded in the module. The option module requires EtherNet/IP connectivity and Studio 5000® version 31 software.

Available for Sale: January 2, 2018 (Network STO for integrated motion applications); Spring 2018 (Safe Monitoring option module)

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Learn more! Visit the Intelligent Motor Control Exhibit (#2139) at the 2017 Automation Fair® event.
PowerFlex® 6000 Drive Enhanced Features

Features and Benefits:
• Expanded power range from 2.4kV to 11kV.
• 100 percent starting torque and constant torque with sensorless vector control.
• Two new output-voltage ratings are available – 6.9kV for North America, and 11 kV for EMEA and Australia.
• Automatic cell bypass option-up to 680 A- Users can keep their operations running in case of power cell failure.
• Tertiary winding on the isolation transformer provides internal power for the fans.
• Internally powered cooling fans reduce customer-supplied, control power requirements, and equipment and installation costs.

Product Description:
Users in heavy industries have a new motor control option for compressors, pumps and fans. The Allen-Bradley® PowerFlex 6000 medium-voltage AC drives from Rockwell Automation offer expanded, user-friendly control for variable and constant torque applications. The latest release delivers a wider voltage range from 2.4kV to 11kV, and provides 100 percent starting torque leveraging sensorless vector control, and constant torque.

Available for Sale: August 15, 2017

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Learn more! Visit the Intelligent Motor Control Exhibit (#2139) at the 2017 Automation Fair® event.
Features and Benefits:
- Fixed, predictable support and upgrade costs enable improved financial planning and more accurate budgeting.
- Modernization activities are pre-engineered and performed on a scheduled basis.
- Maintain production and help reduce downtime risk by securing technical support and repair capability of legacy industrial automation assets.
- Fixed payment covers modernization activities and product support during the entire agreement period
- Support covers both legacy equipment and the new technology as it is upgraded
- Standard agreement length is 3–5 years.

Product Description:
It’s a familiar challenge. You have a large installed base of Rockwell Automation legacy automation equipment, but don’t necessarily have the budget to upgrade it, or want to face the potential for extended downtime that goes with it.

Rockwell Automation offers an option that allows you to migrate to the latest technology over time, and update your legacy equipment using a phased approach. This lets you minimize and plan for downtime. A Modernization Service Agreement helps minimize the risk of operating aging automation assets and enables you to upgrade to the latest technology on a pre-determined time schedule. The agreement includes support, modernization and program management for a fixed fee. The support includes repair, remote technical support and on-site engineering. Upon migration completion, the ownership of the modernized assets transfers to you.

Available for Sale: July 15, 2017

Contact Information:
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Learn more! Visit the Modernization Exhibit (#1039) at the 2017 Automation Fair® event.
**442L SafeZone™ 3 CIP Safety Laser Scanner**

**Features and Benefits:**
- EtherNet/IP™ connectivity saves time and money compared to wiring a non-networked SafeZone™ scanner.
- Easy integration using an add-on profile in Studio 5000 Logix Designer®.
- Supports Device Level Ring (DLR) network topologies to help increase network resiliency.
- Scanning technology helps prevent dust, smoke and optical interferences. Wide 275° scanning angle.
- Quick device replacement of the configuration memory which is stored in the scanner’s system plug.
- Easy implementation of contextual information via faceplates for view platform.
- Safety rated: Type 3 per IEC 61496, PLd per ISO13849-1, SIL 2 per IEC 61508.

**Product Description:**
Using Common Industrial Protocol (CIP) Safety over Ethernet/IP™, the SafeZone™ 3 safety laser scanner adds the advantage of premier integration with a GuardLogix® control system using Studio 5000 Logix Designer®. It also supports Device Level Ring (DLR) network topographies which help increase network resiliency.

Designed for use on or around dangerous areas and hazardous points, the SafeZone 3 is the next generation safety laser scanner platform that features high definition distance measurement scanning technology. This scanning technology improves the accuracy of the scan data and increases the scanner’s immunity to dust, smoke and optical interferences. In addition, the configuration memory in the system plug of the SafeZone 3 helps prevent downtime when a quick replacement of the device is needed. Other features include easy implementation of contextual information via faceplates for view platform and bright, multicolored display with user-friendly push buttons for easy programming and operation.

**Available for Sale:** Q4FY2017

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Learn more! Visit the Safety Solutions Exhibit (#909) at the 2017 Automation Fair® event.
GuardLink™ and Dual GuardLink Guardmaster Safety Relay

Features and Benefits:
• Helps minimize downtime and increase productivity.
• Safety, diagnostics, remote reset and lock command over one cable.
• Up to 32 devices per link (such as guardlocking switches, light curtains and e-stops).
• Improved troubleshooting and reduced downtime via contextual device-level diagnostics.
• No wiring changes or configuration required.
• Reduced inventory and installation costs.
• Seamless integration into EtherNet/IP™ through the Rockwell Automation Integrated Architecture® system.
• TÜV Certified to PLe.

Product Description:
GuardLink™ is a safety-based communications protocol utilizing standard cabling in a trunk and drop topology with plug-and-play connections, significantly reducing wiring while providing device location and delivering diagnostics, remote reset and lock commands over a single cable. No configuration is required and as many as 32 devices can be connected up to a maximum of 1000 m (max. 30 m between devices).

Connecting all the safety devices through GuardLink-enabled smart taps and standard 4 conductor cabling to a GuardMaster® DG safety relay allows visibility of system status down to the individual guard doors and e-stops. If an e-stop or an interlock switch is operated, that individual safety signal will be sent to the GuardMaster safety relays. The relays are optically linked to each other, requiring no wiring for communication between them. That information is then communicated seamlessly across your Connected Enterprise by way of the GuardMaster EtherNet/IP network Interface.

Available for Sale: Q4FY2017

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Learn more! Visit the Safety Solutions Exhibit (#909) at the 2017 Automation Fair® event.
GuardShield™ 450L-B Safety Light Curtain

Features and Benefits:
• Patented technology allows transceiver to be used as transmitter or receiver via innovative plug-in module
• Active protective field provides sensing over entire length of transceiver
• Available in wide range of protection heights 150 mm to 1,950 mm (5.9 in. to 76.7 in.) in increments of 150 mm (0.5 ft.)
• Finger resolution (14 mm): 0.3 to 4 m (0.98…13.12 ft)
• Hand resolution (30 mm): 0.7 to 7 m (02.97…22.97 ft)
• Compact design: 30 mm x 30 mm (1.18 in. x 1.18 in.)
• TÜV certified PLe, Type 4 IEC 61496-1/-2, SILcl3 per EN ISO 13849-1, IEC 62061

Product Description:
The Allen-Bradley® GuardShield™ 450L-B Safety Light Curtain system are unlike traditional safety light curtains which are based on a separate transmitter and receiver architecture. This next generation light curtain system features a patented technology which allows each transceiver to be used as a transmitter or receiver via an innovative plug-in module. The functionality of a pair of 450L-B safety light curtains can be selected by inserting plug-in modules into the bottom of each transceiver. Once powered up, the transceiver learns its functionality from the plug-in module and begins operating as a transmitter or receiver. This advanced technology greatly reduces stock and provides a flexible, cost-effective safety solution. This compact, simple on/off solution is ideal for hand and finger detection and is offered in a wide range of protective heights from 150…1950 mm (5.9…76.7 in.) in increments of 150 mm (0.5 ft).

Available for Sale: Currently available

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Learn more! Visit the Safety Solutions Exhibit (#909) at the 2017 Automation Fair® event.
Lifeline™ 5 Cable Pull Switch

Features and Benefits:
- Two product offerings:
  - Standard model: die cast aluminum with or without e-stop button. IP66/67 enclosure rating.
  - Stainless steel 316 model. IP69K enclosure rating. Ideal for harsh environments
- Up to 100 m (328 ft.) cable span
- Electronic rope monitoring system oversees the cable span and compensates for thermal expansion
- OSSD Outputs
- Bright, 270° LEDs offer diagnostics for switch and tensioning setup
- TUV Approved Ple, SIL 3, Cat 4 Rated

Product Description:
The patented Allen-Bradley® Lifeline™ 5 Cable Pull Switch is a microprocessor-based solution that brings advanced features and diagnostics that help enhance safety while improving productivity. These cost-effective switches are offered in die cast aluminum (with or without e-stop push button) and stainless steel 316 housings. They feature emergency stop capabilities up to 100 m (328 ft.), an electronic rope monitoring system that oversees the cable span and compensates for thermal expansion, and bright, 270° LEDs that offer diagnostics for switch and tensioning setup. The Lifeline 5 offers features and functions that simplify setup and allow for more efficient maintenance and troubleshooting, making it the most advanced switch on the market today.

Available for Sale: Currently available

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Learn more! Visit the Safety Solutions Exhibit (#909) at the 2017 Automation Fair® event.
Predictive Maintenance Service

Features and Benefits:
• Minimize downtime by warning of:
  • Impending failure for a known asset (known event type)
  • Possible new failure of an asset
• Predict potential failures by leveraging asset performance history
• Automate maintenance activities that are associated with prediction events
• Confirm the value of preventive maintenance activities
• Correlate events to batch activities
• Leverage Rockwell Automation® Industrial Automation expertise (Support as a Service)
• Provide cloud-based data collection and analysis capability (Infrastructure and Software as a Service)

Product Description:
Predictive Maintenance Service is an offering that uses cloud infrastructure, machine learning and automation expertise to predict events in an industrial asset or system that could lead to costly downtime or maintenance activities. This service offering uses process data available from an asset and, through machine learning, identifies data patterns that are indicative of issues or failures. It also provides an associated estimate of timing until the event may occur. This capability enables customers to increase their asset utilization and decrease the cost to maintain.

Available for Sale: February 28, 2018

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Learn more! Visit the Services Exhibit (#1441) at the 2017 Automation Fair® event.
FactoryTalk® Analytics for Machines

Features and Benefits:
Help end users:

• Drive higher availability and output
• Reduce maintenance costs
• Operate more effectively

Help yourself:

• Leverage new technologies, e.g., cloud
• Introduce new business models, e.g., SaaS
• Enable customized services and deliver solutions for specific market needs
• Create a foundation for continuous evolution and prioritize continuous improvements

Product Description:
Operations management is a collaboration between end users who need insight and OEMs who understand the machines they built best. For the relationship to succeed, machine builders need access to analytics so they can monitor their equipment remotely after it’s deployed at customer sites across the world. Learn how FactoryTalk® Analytics for Machines enables cloud-based remote monitoring of manufacturing assets. Working together, OEMs can help end users reduce downtime, identify asset maintenance needs and reduce the number of costly site visits — while confirming their machines are running at expected performance levels.

Available for Sale: August, 2017

Contact Information:
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Learn more! Visit The Connected Enterprise Industries Pavilion (#1221) at the 2017 Automation Fair® event.
Features and Benefits:

- Gauge operations and understand performance with new Statistical Process Control (SPC) capabilities
- Avoid missing a quality event
- Loosen reliance on paper-based systems
- Easily integrate quality management capabilities with other fit-for-purpose MES applications
- Reduce your infrastructure investment with included support for the Stand Version of SQL Server 2012, 2014 and 2016 in addition to the Enterprise versions

Product Description:
Industry standards provide a critical way for operations to gauge and understand how product performs against standard process control methodology. FactoryTalk® Quality now includes SPC. This enables manufacturers to react in real time to process changes; help reduce scrap by understanding when machine processes will go out of limits; reduce warranty claims; and understand process variability and adjust machine parameters to improve productivity.

Release 4.0 also helps to make sure manufacturers avoid missing quality events. With increased manufacturing process complexity, operators/quality personnel are asked to manage more tasks. Quality checks are an important part of maintaining a productive factory and must be performed at specific times/events. You can now configure/view how notifications are displayed/acknowledged so that operators know exactly when to perform quality checks and their status.

And, because SPC is included within FactoryTalk® Quality, not a separate application, manufacturers can more easily move away from paper-based systems.

Available for Sale: August, 2017

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Learn more! Visit The Connected Enterprise Industries Pavilion (#1221) at the 2017 Automation Fair® event.
FactoryTalk® Warehouse Management Application

Features and Benefits:
- Improve goods receipt process by receiving against PO/ASN
- Speed good receipt using a mobile scanner
- Re-use existing SSCC codes
- Define warehouse topology
- Create payloads as a combination of different materials, batches (lots), sublots and other payloads
- Track inventory movement
- Track inventory on material, batch(lot) and container levels
- Support for goods issue

Product Description:
To be successful, manufacturers must optimize supply levels to maintain sufficient quantities without tying up capital in excess parts or ingredients. They need to continuously track materials and be able to determine on-hand inventory balances instantly for effective planning and easy item retrieval.

FactoryTalk® Warehouse Management is a scalable, automated solution that streamlines all aspects of inventory to help reduce costs and safety stocks compared to paper-based systems. It can also improve control over raw-material lots and work-in-progress (WIP) inventory. Manufacturers have greater insight into on-hand inventory to manage material levels in near real time with integrated forward and backward product genealogy.

Available for Sale: August, 2017

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Learn more! Visit The Connected Enterprise Industries Pavilion (#1221) at the 2017 Automation Fair® event.
OptiLift™ Intelligent Net Oil Computer (iNOC)

Features and Benefits:
• Optimizes well testing capacity for 1-7 wells when connected to a multi-port selector valve (MSV)
• Improves well testing duration with oil and water volume prediction for 24 hours during any testing period
• Supports a ConnectedProduction™ remote digital oilfield environment
• Enhances visualization with an HMI that has programmable graphics, alarms and warnings
• Engineered-to-order (ETO) solution easily integrates into an existing system
• Installs easily with minimal vendor support needed and ability to be maintained remotely

Product Description:
Rockwell Automation has added a new product to their OptiLift™ line that supports the oil and gas industry. OptiLift™ Intelligent Net Oil Computer (iNOC) is a measurement solution for automated well testing. It can be used for multiple wells and installs in the “liquid leg” of a two-phase test separator. Real-time data is generated and shared for timely management of well operations and testing scenarios. Based on line pressure, line temperature and flowmeter process inputs, the iNOC system can estimate water cut online, reducing further lab tests.

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Learn more! Visit The Connected Enterprise Industries Pavilion (#1221) at the 2017 Automation Fair® event.
OptiLift™ Rod Pump Controller (RPC)

Features and Benefits:
• Provides continuous true load and position monitoring and pump off control for beam pumps and belt driven linear pumping units
• Increases visualization of down hole operations with a dynamometer card display
• Real-time data supports early detection and problem solving capabilities leading to an optimal production environment
• Supports a ConnectedProduction™ environment
• Easily integrates with most well management and SCADA software
• Ability to operate and maintain remotely
• Multiple connectivity options and customization at no additional cost

Product Description:
Rockwell Automation has rolled out another new product to the oil and gas industry’s OptiLift™ line. OptiLift™ Rod Pump Controller (RPC) is a control solution that provides dynamometer pump off control for sucker rod pump optimization. The operator can choose from fixed or variable speed modes to navigate current conditions. The solution supports pressure/temperature monitoring, natural gas flow readings, motor data, visualization, alarming functions and diagnostics customized for well operations.

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Learn more! Visit The Connected Enterprise Industries Pavilion (#1221) at the 2017 Automation Fair® event.
OptiLift™ Virtual Flowmeter (VFM)

Features and Benefits:
• Provides estimated flow rate measurements for the different phases (gas, oil/condensate and water) using standard instrumentation and well flow correlations
• Enables well test cross check/validation or multiphase meter reconciliation
• Assists in inferring values between well tests, helping to optimize artificial lift operations and improve production accuracy
• Supports a ConnectedProduction™ environment
• Easily integrates with most well management and SCADA software
• Real-time data supports early detection and problem solving capabilities leading to an optimal production environment

Product Description:
Rockwell Automation has added a new product to the oil and gas industry’s OptiLift™ line. OptiLift™ Virtual Flowmeter is a software option that provides estimated flow rate measurements for the different phases (gas, oil/condensate and water) and gives the pressure, temperature, flow rate and flow rate pattern information for simulation and optimum operation of the production system. The Virtual Flowmeter option on the rDAC iXC2 remote terminal unit can provide various points of data for problem detection and asset maintenance. It can be a valuable support solution for manual well test scheduling.

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Learn more! Visit The Connected Enterprise Industries Pavilion (#1221) at the 2017 Automation Fair® event.
PharmaSuite® 8.3 MES

Features and Benefits:

• Increase speed with easier process integration
  • New EIHub integration tool creates a common connectivity method for enterprise applications and external IT systems.

• Streamline review and other processes with upfront review of workflows and a simple way to dispense countable material against BOMs.

• Save time and money:
  • Run content engine on site to stay on the latest product release with minimal risk and cost.
  • Instantiate new equipment dynamically during production and track its entire lifecycle within the electronic logbook.

• Effectively manage inventoried equipment by including GMP equipment as part of a BOM and managing it as inventoried material

Product Description:
PharmaSuite® 8.3 adds value for biotech and other manufacturers through scalability, open data access, a standards-based architecture and industry-leading upgradability.

First, a new EIHub application creates a common connectivity method for enterprise applications and external IT systems. It reviews incoming information from one system and transforms it into the proper format and template for the receiving system. It also verifies information receipt or sends alerts for transmission failures. Second, regardless of whether they’re attached to process orders, workflows now can be reviewed under “review by exception” prior to the start of process orders.

Third, we’ve optimized the upgrade engine to help reduce the time required to run upgrade tasks by as much as 50%.

Finally, a new inventoried equipment capability enables management of GMP equipment as part of BOMs so it can be managed as inventoried material. In this way, you can treat resources as material and equipment.

Available for Sale: August, 2017

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Learn more! Visit The Connected Enterprise Industries Pavilion (#1221) at the 2017 Automation Fair® event.
PlantPAx® System Release

Product Description:

The latest system release contains added key benefits to help ease ownership, improve delivery, and drive productivity. The system allows for a smarter, more productive and secure enterprise. Delivery teams are now able to adopt smart system capabilities with enhanced configuration and operations. The intuitive design features and overall user experience allow for increased productivity. Adoption of commonly used industry accepted standards align with enterprise policies of many process customers, which leads to a more secure infrastructure.

Some of the features highlighted in this release include an update of the Rockwell Automation® Library of Process Objects, which includes new power & IEC61850 device libraries. Other features include enterprise-ready architectures for multi-system/multi-site, cloud based remote access, single server for small systems, and guidance for IEC 62443 adoption. The PlantPAx® system helps you make better, faster decisions by enabling you to respond more quickly to the demands of the customer and fast-changing specifications.

Available for Sale: FY18

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Learn more! Visit The Connected Enterprise Industries Pavilion (#1221) at the 2017 Automation Fair® event.
Standard Control Panel

**Features and Benefits:**
- Reduce project estimation time
- Improve project design phases
- Reduce project startup and commissioning efforts
- Base equipment installed includes:
  - Cabinets
  - Backplanes
  - Power supplies
  - PlantPAx®- ready I/O chassis
  - Documentation

**Product Description:**
The Standard Control Panel for PlantPAx® DCS is customizable using topologies that are recognized in the PlantPAx System selection guide and characterization lab. The resulting savings allow clients to focus their resources on core competencies related to their process expertise.

**Available for Sale: Q2FY18**

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Learn more! Visit The Connected Enterprise Industries Pavilion (#1221) at the 2017 Automation Fair® event.
High-Speed Modem HSM800E/IP65

Features and Benefits:

- 802.11bgn, 2X2 MIMO supports 300 Mbps RF speeds with low latency and immunity to multi-path fading
- Configure units as Access Point, Access Point /Repeater, Wireless Client or WDS Bridge
- High power 30 dBm (1 Watt) offers unsurpassed range — up to 4 miles /6.4 km LOS
- Operates in exceptional temperatures, -30° to +70° C
- Weatherproof enclosure standard with multiple mounting options for indoor or outdoor installation
- Offers two external SMA connectors for optional external and remote antenna locations
- Passive PoE with a din rail option allows near or away from power source with DIN mounting option

Product Description:
The HSM800E high-speed, industrial Ethernet modem released this August maintains the feature advantages of the Fall 2016 product release with the addition of an increased range (up to 4 miles /6.4 km), an injection molded weatherproof enclosure and additional mounting options. It blends OFDM, 2X2 MIMO and 1W of power to obtain a longer range and higher speeds than other 2.4 GHz products, making it ideal for bandwidth intensive installations, such as Connected Enterprise, video surveillance, IIoT and other high-speed applications. It also greatly enhances plant floor performance by reducing LOS issues and multi-path fading caused by RF reflection, often occurring in typical high-speed data systems. With the strengths of its differentiating features, the HSM800E can offer complex modulation, high data rates with low latency and immunity to multi-path fading while maintaining excellent noise resistance and improved LOS issues, making it an ideal choice for bandwidth intensive applications.

Available for Sale: September 1, 2017

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Additional Resources:
LinkedIn: DATA-LINC GROUP

Learn more! Visit the Data-Linc Group Exhibit (#1004) at the 2017 Automation Fair® event.
Emulate3D Controls Testing

Features and Benefits:

• Reduce on-site commissioning time and costs - Debug control logic offline and offsite - Remove logical testing from the project’s critical path

• Build 3D systems or detailed machine models from a range of supplied AMHS equipment and connect to PLCs

• Optional streamlined model builds in SOLIDWORKS, import company-specific CAD from a wide range of formats

• Introduce products in a controlled and repeatable way

• Train operators for normal operation and exceptions in a safe environment, verify FAT sequences virtually

• Produce robust and thoroughly tested control systems within budget, on time, and reduce start-up risk significantly

Product Description:
Emulate3D Controls Testing software enables users to carry out exhaustive logical controls testing before the actual system or machine is built. Virtual offline testing begins as soon as the project specification is finalized, removing the process from the project’s critical path and enabling it to be carried out in parallel to the project build. Virtual commissioning is an effective way to reduce the costs and risk associated with automation investments, and is a safe and repeatable means of producing robust controls and safely trained operators. Users build models from a wide range of supplied AMHS objects including conveyors, AS/RS, diverts, merges, and then connect virtual motors, actuators, and sensors to PLC IO through a tag browser. By controlling load arrivals into the virtual system, users can verify the expected operation under any set of circumstances, making the system a credible means of undergoing FAT testing before commissioning.

Available for Sale: January 10, 2018

Contact Information:
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Additional Resources:
Twitter: @Emulate3D
LinkedIn: Emulate3D
YouTube: Demo3DVideos

Learn more! Visit the Emulate3D, Inc Exhibit (#1648) at the 2017 Automation Fair® event.
Micropilot FMR6x Radar Level Sensor

Features and Benefits:
• Hardware and software developed according to IEC 61508 up to SIL3
• Heartbeat Technology™ for cost-efficient and safe plant operation during the entire life cycle
• Reduced engineering expenses due to easy 80GHz radar process integration
• The antenna produced with PTFE provides maximum system availability
• Fast and easy commissioning, maintenance and diagnosis using the HistroROM data management
• A narrow emitting angle and Multi-Echo Tracking analysis allow for high reliability in the case of interfering baffles in the tank

Product Description:
Micropilot FMR6x is the first 80 GHz radar developed according to the international functional safety directive IEC 61508. Its small beam angle of only 3 degrees and focused FMCW 80 GHz signal beam provides level measurement at distances up to 410 feet with accuracy to ±1mm. Advantages of the 80 GHz signal include reduced tank wall effects, less interference from obstacles, and the ability to work with lower dielectric media. Multi-echo tracking algorithms ensure high reliability and measurement repeatability. The instrument’s antenna is designed to resist sticky buildup and condensation, and false echo suppression eases commissioning. FMR6x instruments ensure accurate and reliable measurement in many process and environmental conditions. It also possesses smart sensor functionality via Heartbeat Technology. Instruments with Heartbeat Technology deliver permanent process diagnosis and extensive in-situ diagnosis functions. Self-verification can also be performed without dismantling the device or interrupting the process.

Available for Sale: September 19, 2017

Contact Information:
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Learn more! Visit the Endress+Hauser Exhibit (#1641) at the 2017 Automation Fair® event.
Proline 300/500 Coriolis Flowmeters

Features and Benefits:
• **Heartbeat Technology**—Get diagnostics and on-demand verification

• **Web Server**—Comprehensive access to your device via WLAN connection without any additional software, allowing for fast uploads/downloads of data for maintenance and service

• **HistoROM**—Automatic data storage and simple restoration enables a quick exchange of components and ensures maximum plant safety

• **Seamless System Integration**—Proline can be integrated seamlessly into your plant asset management system, providing reliable information for optimizing production and business processes

Product Description:
Endress+Hauser’s new generation of Proline 300/500 Coriolis and electromagnetic flowmeters combines Proline sensors with state-of-the-art technology. Proline 300/500 allows universal flow metering in all applications in the process industry— from quality measurement and process monitoring to custody transfer applications. Proline 300/500 flowmeters integrate perfectly into your plant and provide a view into the process, ensuring that plant operators receive a wealth of important diagnostic and process data. The new generation of our Proline flowmeters is based on a uniform device concept and is designed in accordance with SIL requirements and to NAMUR NE 107. This means time and cost savings, as well as guaranteed maximum safety, quality and availability in operation and over the entire plant life cycle.

Available for Sale: January 1, 2018

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Learn more! Visit the Endress+Hauser Exhibit (#1641) at the 2017 Automation Fair® event.
Notification and CbM for FactoryTalk® View

Features and Benefits:
• Simple user interface, allows easy configuration of corrective action or maintenance rules from within FT View
• Tag levels can be used to notify specific personnel or groups.
• Tag value combinations can be used to trigger work orders, inspections, or PMs.
• eRPortal’s Condition based trigger utility adds value to FactoryTalk View applications.

Product Description:
Introducing eRPortal’s Condition based Maintenance and Corrective Action Trigger system for FactoryTalk View. Now, OEMs, Machine Builders, and Plant Engineers can easily set rules for any type of corrective action or maintenance activity. FactoryTalk tags can be used to trigger work orders, notifications, or parts and tool requisitions. PM Schedules can also be set and triggered based on run time, cycle out, or any FT tag that represents machine utilization levels.

Procedures, required spare parts, and extended comments can be used to build very detailed corrective action instructions or work orders. Machine specific safety or other documentation can also be staged. Without leaving the FactoryTalk View HMI, users can access an entire array of machine information from the associated asset master record and add this information into the final trigger rule or rules configuration.

Available for Sale: September 15, 2017

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Learn more! Visit the eRPortal Software & Services Exhibit (#1303) at the 2017 Automation Fair® event.
Features and Benefits:

- **Be safer:** Measure voltage up to 1000V through the open fork without test leads or exposed conductors.

- **Be faster:** With no need to open panels or remove wire nuts, electricians can speed through troubleshooting.

- **Be more efficient:** Simultaneously measure and display voltage and current on the T6-1000. The T6-1000 also measures resistance up to 100.0 kΩ.

- **Be everywhere:** With the widest open fork in the industry, the T6 testers measure 4/0 wires up with current up to 200 A.

Product Description:
Troubleshooting electrical systems can be time-consuming and potentially dangerous because it requires access to metallic contact points. The new Fluke® T6 Electrical Testers with FieldSense Technology make troubleshooting safer and more efficient by allowing electricians to take simultaneous voltage and current measurements — not just detection — without test leads.

The T6 testers now make it possible to take reliable true-rms measurements in crowded junction boxes or along conductors with inaccessible end points, saving time, minimizing potential errors, and greatly reducing the possibility of arc flash.

At the heart of the T6 testers is the new Fluke FieldSense Technology, that enables the testers to give simultaneous, reliable voltage and current readings, not just simple go/no-go voltage detection.

The rugged testers are 1000 V CAT III, 600 V CAT IV safety rated (600V CAT III for the T6-600 model) and feature an easy to read display with a backlight.

**Available for Sale:** September 25, 2017

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Learn more! Visit the Fluke Corp. Exhibit (#523) at the 2017 Automation Fair® event.
GraceSense™ Hot Spot Monitor (HSM)

Features and Benefits:

• Better Maintenance Planning—Continuous temperature monitoring and alarming device of electrical equipment identifies electrical hot spots before failures and expensive shutdowns occur.

• Simple Field Installation—Non-conductive fiber probes securely piggy-back onto existing bolted connections and potential heat sources such as; busbars, breaker connections, bus ducts, transformers, or any other potential hot spots.

• Any Voltage—Non-conductive technology safely applied to any electrical systems.

• Reduced Risk—Ability to monitor and retrieve temperature data of critical inaccessible connections and their associated alarms safely via GraceSense™ Web Utility Interface, Ethernet I/P, and MODBUS communication.

Product Description:
GraceSense™ Hot Spot Monitor (HSM) is a non-conductive temperature monitoring and alarming device that identifies potential hot spots and enables user to predict the failures in electrical equipment. Identifying faults before they occur saves money when unplanned outages, service interruptions, and equipment failures are avoided. Plant-wide integration is made simple when the device is connected via MODBUS TCP/IP or Ethernet IP and stand-alone application is made possible with GraceSense™ web interface to configure temperature thresholds, monitoring intervals and relay outputs.

Available for Sale: Available Now

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Learn more! Visit the Grace Engineered Products, Inc. Exhibits (#1102-1103) at the 2017 Automation Fair® event.

Return to Table of Contents
HPS Millennium™ E-Medium Voltage Distribution Transformer

Features and Benefits:

• Three phase ratings up to 15MVA, 34.5kV, 175kV BIL.

• Meets the minimum efficiency standards outlined in DOE 10 CFR part 431 (DOE 2016) as well as NRCan 2018.

• Designed for indoor or outdoor applications (using special enclosures designed for external environments).

• VPI windings are durable for use in some of the most demanding industrial environments.

• Available with multiple termination configurations: stubs-up, coordinated bus-to-end.

• Offered with a full range of optional features to enhance protection, control and monitoring.

Product Description:
HPS Millennium™ E medium voltage distribution transformers are designed for many demanding applications, minimizing both installation and maintenance costs. Coils are precision wound with copper or aluminum conductors using either barrel or comb wound designs with a full vacuum pressure impregnation (VPI) insulation system. HPS Millennium E is suitable for any commercial or industrial application. They can be offered for a variety of environmental conditions and built to meet the most onerous duty.

Available for Sale: July 01, 2017

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Learn more! Visit the Hammond Power Solutions Exhibit (#623) at the 2017 Automation Fair® event.
AF0100 Series - Arc-Flash Relay

Features and Benefits:

• Compact: Fits into a wide range of arc-flash applications

• Two optical sensor types: Point sensors or fiber-optic sensors can be used in any combination for coverage flexibility

• Dual sensor inputs: One relay can monitor two arc-flash sensors

• Adjustable light sensitivity: Allows for operation in bright environments and maximum sensitivity in dark environments

• Fail-safe system: Continuous monitoring of optical sensors and inputs ensures protection

• USB interface: Configuration software is easy to use with no software installation.

Product Description:
The AF0100 Series arc-flash relay is a cost-effective solution that reduces arc-fault damage by detecting the light from an arc flash and rapidly tripping. Two remote light sensors can be connected to one relay and multiple AF0100 and/or AF0500 relays can be connected to monitor additional sensors, providing complete coverage for a wide range of applications. The compact, DIN-rail or surface-mountable body makes this an ideal solution for equipment manufacturers.

Two isolated Form-C contacts are provided for applications with multiple devices that must be tripped. This is especially useful for generator applications where the generator and breaker need to be tripped in case of an arc flash. The AF0100 accepts PGA-LS10 point sensors and PGA-LS20/ PGA-LS30 fiber-optic sensors in any combination. A solid-state redundant trip circuit provides an internal fail-safe mechanism and fast arc-flash response during power up. Front-panel and sensor LEDs indicate sensor health and fault location.

Available for Sale: March 2, 2018

Contact Information:
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Learn more! Visit the Littelfuse Inc. Exhibit (#1514) at the 2017 Automation Fair® event.
PSR Series High-Speed Square Body Fuses

Features and Benefits:

• Best in Class DC performance
• Extremely current limiting
• Superior cycling capability
• Global certification cURus, CCC, IEC
• Direct bus-bar mount design
• Visual and optional microswitch fuse blown indication
• Low watt-loss design
• Compliance with US and Canadian requirements
• Class aR performance according to IEC60269-4

Product Description:
Littelfuse PSR Series High-Speed Square Body Fuses are designed for protection of power semiconductor devices such as diodes, triacs, IGBTs, SCRs, MOSFETs and other solid state devices that are typically designed into power conversion and power conditioning equipment. Variable frequency drives, inverters, UPS, rectifiers and soft-starters are examples of typical equipment designed with sensitive power semiconductor devices that cannot withstand any line surge or overcurrent conditions and require high-speed protection.

Littelfuse POWR-SPEED® PSR Series products offer circuit protection at the extremely fast speed required to protect modern day power conversion devices. Such products are commonly found in applications including pulp and paper industries, heavy-lifting equipment, wastewater treatment plants and MRO facilities.

Available for Sale: May 24, 2017

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Learn more! Visit the Littelfuse Inc. Exhibit (#1514) at the 2017 Automation Fair® event.
High Availability Fiber Optic Networking

Features and Benefits:

- Redundant Self Healing Dual Channel Fiber Optic Ring
- Inherent Security
- Immune to Noise Issues
- Impervious to Data Storms
- No Configuration or programming Required
- No IP Address Required
- Rockwell Automation Controller Chassis based and Standalone options Available
- Supports All varieties of Ethernet and Serial Communication-Simultaneously
- Diagnostic Tools and Faceplates

Product Description:
The Phoenix Digital fiber optic Ethernet system incorporates “Distributed Stacked Core Technology” that provides customers High Available Ethernet connectivity without IP addressing, without software configuration and is compatible with all protocols of Ethernet. Customers will benefit from a secure, simple to install and easy to maintain network that has a MTTR of less than 30 seconds. This increases network uptime and expandability without disruption; essential requirements for all high-availability industrial network.

Phoenix Digital and Molex now offer a complete set of Modbus Communication Tools, providing higher throughput, greater flexibility, and increased reliability than previous conventional Modbus communication equipment. Phoenix Digital’s family of Modbus Optical Communication Modules provide Multi-drop redundant Fiber Optic Communications for high reliability Modbus, Modbus/TCP, and Modbus & Ethernet networks, with On-the-Fly Modbus Multi-Master Multiplexing.

Available for Sale: immediately

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Learn more! Visit the Molex Exhibit (#2301) at the 2017 Automation Fair® event.
Industrial Wireless Modems

Features and Benefits:

- Configurable to be used for master, repeater and remote locations enabling superior network flexibility and scalability
- Highly Secure (AES) encryption
- 802.11b/g/n Compatible
- High-speed connectivity to provide bandwidth for your network data, control and video applications
- Ethernet and serial communications
- Simplified configuration
- Memory Module stores configuration information on replaceable flash memory module for rapid deployment or replacement
- Optional GPS Module for location tracking

Product Description:

Ruggedized, industrial 2.4Ghz wireless access point built to be an essential component to a robust industrial communications infrastructure. It provides unsurpassed broadband speeds (to 150Mbps) and range to deliver the reliable, isolated and secure wireless networks required today to provide complete connectivity to critical IT, operations control systems and remote asset data. Scalable Wireless networking over large geographical areas become a reality using IndustrialMESH technology.

Available for Sale: December 1, 2017

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Learn more! Visit the Molex Exhibit (#2301) at the 2017 Automation Fair® event.
SynapSense® 900 MHz Sensor: Vibration

Features and Benefits:

• Wireless placement of sensors at any point avoiding the cost and time of installing additional connectivity
• Monitors vibration without communication or power wiring to enable fast, easy deployment
• Operates on two standard AA batteries reducing installation and maintenance costs
• Measures on the x, y and z axis for improved vibration measurement
• Provides automatic time stamping for all sensor data to indicate the exact time at which an event was collected
• Sends messages to confirm connection between gateway and sensors
• Allows interconnect ability of up to 100 sensors on a single wireless network gateway through one single IP address

Product Description:
Panduit introduces the SynapSense® 900 MHz Vibration Sensor as part of the Panduit® SynapSense® 900 MHz Wireless Monitoring System.
The SynapSense Vibration Sensor provides a low-cost, easy-to-deploy solution to gather, communicate, and visualize data to improve reliability, product quality, operational efficiency and energy optimization. As part of a wireless network, up to 100 sensors can be connected through a single IP address to capture real-time vibration data up to 300 ft. in a facility.
The system allows for complete configuration and customization at a sensor, local network, or client-wide level, making it ideal for predictive maintenance applications for pumps, electric motors, automotive conveyor systems, baggage handling systems, and HVAC systems.

Available for Sale: June 2, 2017

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Learn more! Visit the Panduit Corp Exhibit (#1241) at the 2017 Automation Fair® event.

Return to Table of Contents
POSITAL Magnetic Kit Encoder

Features and Benefits:

- Absolute Multiturn & Incremental Interface
- Electrical Interface: BISS C, SSI, RS485, Incremental TTL up to 16384 PPR + UVW
- No Battery – No Maintenance
- No Ball Bearings & Compact Design
- Insensitive to Dust and Moisture
- High Shock and Vibration Resistance
- Built-In Self-Calibration Capability to Compensate for Small Sensor-to-Shaft Alignment Errors

Product Description:
POSITAL’s new family of kit encoders provide the manufacturers of servomotors and other machinery with rugged, accurate and cost-efficient tools for building rotary position measurements into their products. The new kit encoders are based on POSITAL’s highly successful self-contained magnetic rotary encoders and maintain the benefits such as no need for backup batteries or for geared optical disks. POSITAL magnetic kit encoders are easy to install since they don’t require extra-precision and can be installed in factory settings. A built-in self-calibration capability can compensate for small sensor-to-shaft alignment errors. For servomotors with magnetic brakes, a special magnetic shield has been developed to isolate the measurement system from external magnetic fields. The resolution of the new POSITAL kit encoders is 17 bit, with an accuracy better than + 0.1°. The operating temperature range is -40 to +105 °C. These devices are available with a variety of non-proprietary communications protocols, including BISS, SSI and RS485.

Available for Sale: November 1, 2017

Contact Information:
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Learn more! Visit the POSITAL Fraba Inc Exhibit (#603) at the 2017 Automation Fair® event.
OPC UA MDIS ControlLogix ® Module

Features and Benefits:

- Softing’s OPC UA MDIS module for ControlLogix®
- Connectivity module inserts into ControlLogix® chassis
- Enables ControlLogix® to be compliant with the OPC UA MDIS information model for Subsea applications
- Standards based data and communication method for connecting DCS’s vendors topside with PLC vendors subsea side
- Standardized OPC UA information model includes subsea application specific asset types, status health, values, states, commands, and configuration
- Includes asset models, robust communication, and redundancy for critical subsea applications

Product Description:
Subsea applications have unique challenges when integrating subsea control system vendors with topside control system vendors. Challenges include cost of custom integration, complexity, and quality of integration. Traditionally, this integration between subsea and topside has led to increased engineering, testing time, and one-off costs on projects. The MDIS (MCS DCS Communication Interface for the subsea oil & gas industry) group developed and published an international standard and method of communication built on OPC UA. OPC UA MDIS is a companion specification to OPC UA specification where the mission was to provide a standardized integration approach using an open protocol implementable on any hardware platform.

Softing implemented the OPC UA MDIS on a ControlLogix® module. The ControlLogix® OPC UA MDIS module inserts in the ControlLogix® platform, and provides a method for ControlLogix to be OPC UA MDIS compliant for communicating to other OPC UA MDIS compliant devices in these subsea applications.

Available for Sale: October 31, 2017

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Learn more! Visit the Softing (OLDI) Exhibit (#1945) at the 2017 Automation Fair® event.
PowerFlex® Universal Analog Input Option Card

Features and Benefits:

• The PowerFlex® 750 series extends the functionality of your drive by offering eight, configurable, analog inputs.

• The analog inputs support voltage, current, RTD, and resistance.

• Any combination of input types may be used at one time (RTD uses channel pairs).

• Features 250 VAC channel-to-chassis ground isolation; 10 VDC channel-to-channel isolation.

• Easily configured using CCW software.

• Channel-selectable filtering for fastest analog update time.

• Lower power consumption

Product Description:
The PowerFlex® 750-Series of AC drives from Rockwell Automation is the workhorse of the industry. Spectrum Controls has partnered with Rockwell to create a unique option module to enhance the capabilities of the PowerFlex® 750-Series for a variety of critical applications such as motor winding and bearing temperature, tank levels, pressure and flow of air or fluids, torque, tension or temperatures within the drivetrains, oven zone temperatures that can be done with a loop in the drive or PLC, diameter measurement sensors on Web Process, and any analog signal needed can be transferred from the drive to a PLC or can be monitored via the PowerFlex® Keypad.

Available for Sale: Available now

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Learn more! Visit the Spectrum Controls Inc. Exhibit (#219) at the 2017 Automation Fair® event.
ControlLogix® 1756-RMS-SC Power Monitor Module

Features and Benefits:

- Eight isolated input channel pairs; one current and one voltage.
- Non-typical AC waveforms supported such as phase angle fired SCR waveforms.
- Increased visibility on energy consumption.
- Extend the life of critical components within your plant.
- Easily manage peak-hour energy demands to avoid expensive utility fees.
- Improve uptime and reliability by monitoring power on a per component basis.
- Supported by local TechConnect phone support from Rockwell Automation at no additional cost.
- Easily configured using RSLogix® software.

Product Description:
Spectrum Controls is proud to announce the release of a ControlLogix® compatible Power Monitor Input Module! For single-phase applications that benefit from precise power monitoring, this new module will meet your needs. Whether your application applies power in the form of a traditional sinewave, a sinewave with phase angle fired SCR control or from a DC power source, the RMS module will be a good choice for you. All modules offer 16-bit resolution, fully linearized data and over/under range indication. With a full featured Add-On-Profile, the module automatically populates information into the data table of the ControlLogix® controller. As an example, some of the data points being monitored and calculated by the module include RMS volts, RMS amps, Real Power, Apparent Power, and Power Factor.

Available for Sale: Available now

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Learn more! Visit the Spectrum Controls Inc. Exhibit (#219) at the 2017 Automation Fair® event.
Universal Industrial Gateway

Features and Benefits:

- Single solution – Connect multiple devices, across multiple protocols, in a single box
- Multiple protocols – Supports multiple Industrial Ethernet and serial protocols
- Configurable – Mix & match protocols and communication across ports simultaneously
- Intuitive navigation – Consistent configuration for any protocol conversion
- Context-sensitive Help – Fully searchable with images and step-by-step instructions, only one click away

Product Description:
Universal Industrial Gateway is the newest addition to the WebPort family of products and provides a single solution for connecting multiple devices, across multiple protocols. In systems where the installed base includes Industrial Ethernet and/or serial protocols, maintaining communications across devices is critical and upgrading equipment isn’t always feasible. The Universal Industrial Gateway can connect multiple devices simultaneously, each with a different protocol, saving you time, money, and the headache of configuring multiple gateway devices.

Available for Sale: February, 2018

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Learn more! Visit the Spectrum Controls Inc. Exhibit (#219) at the 2017 Automation Fair® event.
ATEX Certified Gearboxes

Features and Benefits:

• ATEX available on every STOBER gear unit
• Protects against ignition hazard such as sparks or hot surfaces in gear units
• Rated for:
  • Group II (above ground)
  • Category 2 and 3 (gas, vapor, mist dust)
  • Zone 1, 21, 2, and 22
• Temperature class: T3 and T4 (275-392°F)
• Built and shipped in one day from Maysville, Kentucky

Product Description:
The ATEX regulation applies to all equipment intended for use in explosive atmospheres, whether mechanical or electrical. Under ATEX manufacturers must design components to prevent the risk of an explosion due to production or release of explosion atmosphere. Potential causes of ignition can generally occur by mechanically produced sparks, electrostatic discharge, hot surfaces, or chemical reactions. An ignition hazard assessment has been conducted for STOBER gear units and classifications have been made. STOBER C, F, K, S, P, PA, PH, PHA, PHQ, PHQA, PK, PXX, PHK, PHQK, PHKX, PE, KL, and KS units meet the requirements. These units are rated for Equipment group II, Category II and III, gas and dust, Temperature Class T3 and T4, and have monitored design safety and liquid encapsulations.

Available for Sale: September 1, 2017

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Learn more! Visit the STOBER Drives, Inc. Exhibit (#2133) at the 2017 Automation Fair® event.