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Kendall Connection Live 2017
Technology Summit
Product Showcase & Learning Event

Thank you for attending this event!

Kendall Electric, Smith Instrument, Galloup, and Merlo Energy teamed together to bring you...

• Process
• Automation and Safety
• Machine Vision and Barcode
• Motion Control and Mechanical
• Networks and Information Systems

This was our first event combining technologies from our various Kendall Group companies, allowing us to provide solutions in all of these categories. In addition to our show floor containing 55 of our vendor partners, a variety of learning seminars were also presented throughout the day. This show took place in Grand Rapids August 1st.

We'll be having a Technology Summit in Birmingham next year!
SAVE THE DATE: May 9th, 2018

Thank you for your feedback!

“Best in class”

“Top notch. Very well organized and attended”

“Great event! Will attend again wherever it is”

“The presentations were very informative”

“Wonderful show. Truly a first class event”

“Next time I want to bring more of my colleagues”

“The event was definitely worth it for us”
JOIN KENDALL ELECTRIC AT AUTOMATION FAIR!

Discover All the Solutions You’re Looking for in One Place.

- See the latest technologies and solutions in action at over 150 exhibits from Rockwell Automation and our PartnerNetwork™ members
- Learn from more than 110 technical sessions, hands-on labs and forums while earning PDH credits
- Network with industry experts and peers

Register Today at:
AUTOMATIONFAIR.COM

Get the most out of the Event with your IDEAL DAY PLANNING GUIDE.

Planning Guides are available for a number of different industries. Talk to your Kendall Electric Account Manager for information on the IDEAL DAY for you!

IDEAL DAY PLANNING GUIDES Include:
- The Connected Enterprise
- Chemical and Specialty Chemical
- Machine and Equipment Builders (OEMs)
- Automotive and Tire
- Life Sciences
- Food and Beverage
- Oil and Gas
- Power and Energy
- Pulp and Paper
- Water Wastewater
- Safety

Update from Rockwell Automation:
Hurricane Harvey Impact on Upcoming Automation Fair Event

Our hearts go out to all of those affected by the recent hurricanes. Hurricanes Harvey and Irma have caused terrible devastation, but they have also brought out the best of the human spirit.

We want to reassure you, along with our PartnerNetwork™, the Greater Houston Convention & Visitors Bureau and the George R. Brown Convention Center, we are committed to moving forward with this year’s Automation Fair event in Houston. We have confidence that the city of Houston is ready to host this year’s Automation Fair event. We are committed to supporting Houston and the surrounding Gulf Coast area and hope this year’s Automation Fair will be one of the many signs of recovery.
When I experience problems with my vehicle, I visit my trusted mechanic. For physical ailments, I consult my family physician. And when there is an application that requires assistance with tray, I lean on Eaton B-Line.

KwikSplice is their go-to solution for cost-effective cable management. The system is perfect for commercial, light-industrial, data center, healthcare, education and government cable management applications. The KwikSplice Cable Tray System delivers the lowest total installed cost for cable management for most applications.

Savings begins with a patent-pending splice retention groove I-beam side rail which allows installers to easily guide and snap the splice plate into position. After the splice plate is inserted between the two I beams, it takes just two bolts for the installer to secure the connection. The splice maintains structural integrity and electrical grounding. Comparing the two-bolt KwikSplice splice plate design and traditional splice plates shows up to 50 percent savings on installation time and materials.

This system comes with a full line of labor saving accessories and fittings that are standardized with ⅛” hardware. No need for extra parts and pieces because the unique design of the Universal Fitting allows installers to remove side panels in order to easily create 90’s, tees, or crosses in the field. Another unique feature to KwikSplice is the tab and lock trapeze solution for installation which helps eliminate the need for hold down clamps, and saves substantial installation time over traditional methods. Also available in 6”, 12” and 18” lengths are Side Rail Drop Outs. This tool-less design snaps into place and helps maintain cable bend radius over the side rail of the cable tray.

All in all, the KwikSplice Cable Tray System is really the best choice to meet a NEMA 12A or 12B load class system. When there are questions about what parts to pick, when you just want to verify that you have all you need for your job, or if you’re questioning whether or not you have picked the best type of tray to meet the needs of the job... keep B-Line in mind as consultation source. The Eaton team at B-Line are a great source for professional consulting and engineering support. B-Line factory representatives will perform project take-offs and also help with layout and design.

If you have any questions, your Kendall Electric Account Manager is a great place to start.
Brady’s BMP®61 label printer is designed for quick and efficient identification of wires, cables and components. With high performance materials that can handle the toughest industrial identification applications, this printer is your rugged and reliable partner in the field and dependable workhorse in the shop. It features multiple user interfaces, touch screen capabilities and a variety of ways to connect, manage and save your data. With the BMP®61 printer in hand, you’re ready to tackle identification tasks- and finish those tasks flawlessly.

**KEY FEATURES**

The BMP®61 printer is designed to be simple, efficient, versatile, and reliable with the following features:

- Large, color touch-screen display
- Data connectivity with USB 2.0 ports, flash drive support and optional WiFi
- Wide cover opening and large material bay offers easy material loading
- Smart cell technology for quick, automatic label formatting
- Simple user interface and intuitive QWERTY style key pad
- Die-cut, continuous, and custom label supplies up to 2” for a range of applications
- 300 dpi print head for clear, crisp font
- Tested to survive a four-foot drop with rubber bumpers and durable design
- Utility strap for improved storage and handling

With the addition of Brady Workstation Data Automation, you can now print large jobs easier and faster. This software allows label printing to seamlessly become a part of your daily processes by automatically importing data onto a pre-defined label template and printing to a designated printer.

Contact your Kendall Electric Account Manager for additional information.
Prevent Unplanned Downtime with an Installed Base Evaluation
Submitted By: Kevin Geesin - Automation Sales Manager - Michigan and Indiana

Do you...

- Have an accurate plant model identifying all physical assets?
- Have a Bill of Materials (BOM) of all of the parts on critical assets in your plants?
- Have accurate lifecycle information on your aged equipment and know what's current, outdated, or obsolete?
- Have a standard process for maintaining your storeroom to support critical spares?

And what if you don’t? Are you jeopardizing your plant with possible unplanned downtime that could cost thousands of dollars in production penalties, lost time to market, or other costs?

What if... a simple plant visit by Kendall Electric and Rockwell Automation could help plan and prevent your next major plant shut down by conducting an Installed Base Evaluation?

An Installed Base Evaluation (IBE) is a site delivered service that provides actionable intelligence to help you make data-driven decisions regarding the support and obsolescence management of your installed base assets.

There are three simple steps…

**Step 1**  
*Field Collection*

- On-site data collected by a Rockwell Automation Field Service Professional

**Step 2**  
*Processing*

- Off-site processing and analysis determine plant lifecycle risks and overall MRO inventory status

**Step 3**  
*Delivery*

- Delivery of reporting to customer using a consultative approach

During the delivery, we will provide you with the information you need to make important decisions for your plant.

**Complete Executive Report Detailing**

1) Status of Your Assets  
2) Current Inventory Status  
3) Recommended Inventory Status  
4) Installed Base – High Risk Equipment  
5) Overall Panel Condition  
6) Overall Spare Parts Condition  
7) Location of Inventory  
8) Other/Additional Details

*Continued on next page...*
Once you have this data, we can help you with Life Cycle Management and with the modernization process of your machines and plants.

With a small investment into an IBE, you can take your plant from unknown to known and prevent costly downtime. Ask your Kendall Electric Account Manager about various options and pricing.

Click on the link below to watch a YouTube Video that walks you through the details of an IBE.

https://www.youtube.com/watch?v=sUVZuGr8tX0
NEW! Double Door OLI Switch

The OEM Line Isolation Switch
Now Available in DOUBLE DOOR Option

The industry’s first compartmentalized fusible safety switch.

Revolutionary two-door design includes an internal barrier that separates the upper switching compartment from the lower fuse compartment.

Features
- 30A – 1200A
- 240VAC and 600VAC
- NEMA 12/3R and 4/4X available
- Improved Safety Product
  - Isolation of fuse base from line-side power
  - Observe position of the movable blades within the switch blade
  - Prevent doors from opening while energized
  - Maintain isolation from incoming line-side cables within fuse compartment
- Simplified maintenance and testing
- Increased flexibility

Double up on safety with
Eaton’s double-door, line-side isolation switch

Voltage monitors
Verify line and/or load-side voltage with optional, easy-to-see voltage monitors

Viewing window
Get confirmation whether circuit is open or closed by easily observing blade position through viewing window

Internal barrier
Enhance safety by isolating incoming power from fuse compartment, furthering safety

Barrieder wireway
Isolate bottom-fed cables within the cabinet (this feature can be removed for top exit applications)

Screw down latch
Benefit from the added level of security required when opening the line-side power compartment

Enhanced visible means of disconnect
New arc shield design permits view of trailing edge of blade when handle is in OFF position

Interlocking mechanism
Provide increased safety with interlocking mechanism that prevents both doors from being opened when handle is in ON position

Isolated fuse compartment
Eliminate exposure to line-side power when changing fuses with isolated fuse compartment

Latch fasteners
Gain easy access to lower compartment to change fuses or perform other maintenance

For more information, visit Eaton.com/doubledoor

Note: Enlarge circled area view of front door closed.
The IDEAL 33-866 Test-Tone-Trace VDV kit combines two of our most popular testers - our 33-856 VDV Multimedia tester and the 62-164 Amplifier Probe plus several accessories in one kit designed to handle all of the basic testing and toning applications used by low voltage, video, and data communications installers. This is an affordable kit that any installer of twisted pair or coax cable would use every day on the job.

The VDV is an LCD based all-in-one basic Voice-Data-Video tester for verifying proper wiring of low-voltage and data communications cables. The primary function of the VDV is the wiremap test. The wiremap test visually shows, pin by pin, whether a cable is terminated properly at both ends, and if there is continuity from end to end. The VDV can test Data/Ethernet RJ-45 (8P8C), Voice/Phone RJ-11/12 (6P6C/6P4C) and Video/coax cables. The LCD visually displays “PASS” or “ERROR” after each test to verify if the cable is terminated correctly.

In Data mode, the RJ-45 port tests RJ-45 connector cables terminated to Cat 3/5/5e/6/6a twisted pair cables. When the test is activated, VDV checks each conductor of the cable for any opens (unterminated or cut conductors), shorts (cut or nicked conductors that come into contact), miswires (wires out of order – not consistent at both ends), reversals, or split pairs (wired correctly but using wrong conductor order and grouping). VDV can accurately identify and alert the user to uplink/crossover cables.

Test results are displayed on the LCD in a pin-to-pin format. Error types are also displayed on the LCD. Shield continuity can also be tested on shielded RJ-45 connectors and cables.

In Voice mode, the RJ-11/12 port is active. Testing is similar to the Data test, but tests up to 6 conductors instead of 8.

In Video mode, the F port is active. Coax cables are tested for opens and shorts on the pin and shield.

For all tests, the included main remote (Remote #1) is used to terminate the far end of the cable run. The main remote is stored in the base of the tester when not in use.

A built in analog tone generator is also included and can be used in all testing modes. The tone generator has 4 user selectable tones. Toning helps to locate and identify a single cable that is within a bundle of cables. The tone generator has the ability to tone by pin, by pair, or all conductors at once. This allows the user to more precisely locate errors within the cable, such as finding opens.

The 62-164 Pro Amplifier Probe is used to audibly amplify analog signals generated by standalone or built-in IDEAL tone generators. The probe has an adjustable volume control knob. The probe tip is plastic to trace and identify cables within a bundle. The plastic tip also prevents sparking in energized systems.

• Test cables, Tone cables, and Trace cables in one kit
• Voice/Data/Video LCD based wiremapper verifies cable continuity
• Identifies errors by pin: shorts, opens, miswires, reversals, and split pairs
• Amplifier probe included
• Designed for Cat 3/5/5e/6/6a cables; RG59/6/6 Quad
• RJ-45; RJ-11/12; and Female F port interfaces
• Tone generator with 4 selectable tones

Contact your Kendall Electric Account Manager for additional information.
Advanced Energy’s line of already stout industrial temperature measurement sensors (Onyx-MC multi-channel pyrometers and Onyx-MCE active-emissivity pyrometers) has been recently enhanced with the addition of the Onyx-S and Onyx-S2C models.

These 24vdc powered, optical temperature pyrometers feature stainless steel construction, IP65 protection and a standard operating temperature rating in environments up to 70°C (158°F). Standard electrical connections include a M12 connector for power, analog and serial outputs, a USB connector for PC interface, and a Field Bus Comm Port (which supports a host of optional communication buses such as EtherNet/IP, DeviceNet, Profinet and Modbus).

The Onyx-S is a single wavelength device and can be configured to support temperature ranges from 200°C (392°F) to 2200°C (3992°F) based on the measurement wavelength for standard processes. Five material-wavelength choices are available, ensuring that the right measurement range is chosen for your process.

The Onyx-S2C employs two-color ratio measurement for temperature ranges from 600°C (1112°F) to 1600°C (2912°F), and is intended for processes where the work product’s emissivity may be changing (due to oxidation or the deposition of a film), or which experiences higher levels environmental contaminants. The two-color ratio Onyx-S2C helps ensure a more accurate measurement under these changing conditions.

Both the Onyx-S and Onyx-S2C feature an integral laser aiming device for precise process alignment up to a maximum distance of 3m. For those applications where aiming with a laser is impractical (i.e. trying to view inside a processing furnace), an optional, integrated optical alignment scope can be ordered.

Additional protection for operation in those harsh environments is covered with an optional water-cooling jacket (increasing operational temperature ratings in environments up to 121°C [250°F]), and an air-purge collar, which provides constant airflow across the pyrometer lens to protect against environmental contamination.

All of these features, along with internal temperature compensation for output accuracy, compact size, and a twelve month warranty, ensure that Advanced Energy has your pyrometry and optical temperature measurement needs in hand.

Both systems are provided with AE’s Onyx Data Logger software, which can be used to configure the Onyx-S and Onyx-S2C during initial set-up and commissioning, provides real-time temperature measurement status, and collects data for long-term trend analysis. The Onyx Data Logger offers an easy-to-use Windows®-based interface and can quickly be installed on any laptop or tablet. Real-time temperature measurement data is provided via the Virtual Gauge Panel, with customizable options to easily visualize your data.

Please contact your local Kendall Electric Account Manager or Automation Engineer for more information.

Additional information can also be found on Advanced Energy’s website at: http://www.advanced-energy.com/en/Onyx_Pyrometer.html
The 1761-NET-AIC is obsolete. Its end of life is another step to move users away from legacy PLCs and serial protocols. The problem for you is that you aren’t ready to say goodbye to the 1761-NET-AIC. You have lots of machines reliant on legacy PLC’s and need to milk every last drop of function out of them. Without the 1761-NET-AIC, that job would be a lot more challenging.

Real Time Automation is here to save your applications with the 515-RTA-AIC – the direct replacement for the 1761-NET-AIC. With the 515-RTA-AIC, you get the same ports with identical pin outs. It is pin compatible with the 1761-NET-AIC. Just unplug your 1761-NET-AIC and plug in the 515-RTA-AIC. It’s just that simple to keep your systems running until it makes sense for them to move to a new architecture.

Two part numbers to choose from:

515-RTA-AIC-NWRE-D
1761-NET-AIC Replacement Module External Power

515-RTA-AIC-NWRI-D
1761-NET-AIC Replacement Module Serial Port Powered

FEATURES

- Compatible with a variety of Allen-Bradley SLC, MicroLogix and PanelView devices
- Connects PC serial ports and Logix controllers to serial PLCs
- Supports point-to-point isolator mode, RS232 to RS485 isolator mode, and more
- All ports are pin compatible with the 1761-NET-AIC
- Communication rate switch identical to the 1761-NET-AIC
- Uses the same cables as the 1761-NET-AIC
- DIN rail mounting
Why Aren’t You Shopping Online?
By: Tom Lyford - Information Systems, E-Commerce - Portage, MI

We get it… There are a lot of scary places out on the internet. But there are also names that you know and trust and have no issue ordering things like toilet paper, toys, and even dog food. But what about shop.kendallelectric.com? Why aren’t you shopping there?

For those of you who do, we say “Thank you!” You are one of the many who use the shop.kendallelectric.com site and know the benefits of doing business with us this way.

If you have an account with us, you can get a login for you and/or any of your employees. We can even set you up as an administrator on your account, and then you can add and remove users without contacting us to do it for you. You and your users can then see, and order, the items you are searching for (with your pricing), without ever having to pick up the phone.

For those who don’t use the shop.kendallelectric.com, why not?

It’s a serious question and we are looking for serious answers.

What are the reasons you don’t use our site to place orders, look at your order history, or do an account inquiry? There are many things that you can do 24/7 via the site that maybe you didn’t know and are looking for answers.

We are looking for your comments and feedback.

Email us at ecommerce@kendallgroup.com or call us at 269-978-3838 and ask for Tom Lyford or Ben Merritt and we’ll be glad to talk to you about the site, how to get you connected, and if there are questions or concerns, what we can do to make it better to use and easier for you to do your daily tasks.
Are your Rubber Insulated Gloves up to code?
Submitted By: Wayne Puckett - Account Manager - Tuscaloosa, AL

Let Kendall Electric help you keep your rubber insulated gloves up to date.

Testing Intervals per OSHA 1910.137 Electrical Protective Devices

As stated in Table I-6 of 1910.137, rubber gloves need to be tested before first issue and every six (6) months thereafter. If the insulating equipment has been electrically tested but not issued for service, it may not be placed into service unless it has been electrically tested within the previous twelve months.

Kendall Electric works with our insulated goods supplier Cementex, and can pick up and send your gloves off for testing. You will get a detailed list of the gloves sent in for testing and pass or fail grades for all the tests they do.

We can also provide you with new glove rubbers, leathers, and bags. All Cementex gloves come tested and certified according to OSHA regulation 1910.137(b)(2)(xii), which states the employer shall certify that equipment has been tested in accordance with the requirements of paragraphs (b)(2)(viii), (b)(2)(ix), and (b)(2)(xi) of this section. The certification shall identify the equipment that passed the test and the date it was tested.

In addition to insulated gloves, Cementex offers many other insulated protective products, as well as testing for those products. Cementex also offers all arc flash protective equipment. And don’t forget Glove Talc, to help with getting gloves on and off with sweaty hands.

To learn more about how Kendall Electric and Cementex can help you keep your employees safe, and insulated goods within OSHA guidelines, please contact your Kendall Electric Account Manager.

Ask us about the Cementex Arc Flash Backpack Kits.
Each HRC-2* Contractor kit includes; Coveralls (made in the USA), Arc Flash Face Shield and Dielectric Hard Hat (10 Cal Rated), Balaclava Sock Hood, Safety Glasses, and Earplugs. All of which are required to achieve compliance with NFPA 70E Hazard Risk Category 2*.
Are you NEW to The Connection? WANT TO SEE MORE?

View and download prior issues online at: KENDALLELECTRIC.COM/TC

Promotion Ends October 31st!

Rules:
- Customer earns one $50 card for every $1200 in cumulative purchases during the promotional period.
- Orders must invoice between Sept. 1st and Oct. 31st, 2017
- Backorders and open orders do not qualify.
- 15 gift cards maximum per customer
- Gift cards are limited. Cards are awarded on a first-earned, first-awarded basis while supplies last.
- Kendall will track all sales
- Gift cards will be distributed by Kendall Electric Account Managers.
- Customer must be current and in good standing to qualify
- Offer is good only where company policies permit the acceptance of premium incentives
- Gift card recipients assume all tax liabilities.

Sporting Goods Gift Card Promotion
Sept. 1 - Oct. 31, 2017

Earn a $50 Sporting Goods Gift Card for every $1200 in Sylvania products purchased from Kendall Electric.
WE’RE HERE FOR YOU!

As 2017 comes to a close, we’d like to remind you of all the areas we can help you grow and prosper.

Kendall Electric serves the electrical, lighting, and automation industries, and we specialize in industrial automation and communication products.

We service industrial end users, original equipment manufacturers, contractors, municipalities, government, education, and water/wastewater facilities.

Kendall Electric provides electrical supplies, lighting and power distribution products, energy savings solutions, support and training, machine automation and control, local inventory and delivery, and communications and networking solutions.

Visit our website to view our line cards and location details.

KENDALLELECTRIC.COM

We thank you for your business and look forward to continued success with you again next year!

WE OWN IT®
Contact the Kendall Electric location nearest you for all of your electrical and datacom needs.