

ACD CONNECT

ACD NOW OFFERS DELIVERY SERVICE

ACD is pleased announce the addition of a delivery service for our valued customers. Now more than ever, it is vital to partner with a distributor on the move. With more demands to keep inventory low, and skyrocketing freight and shipping costs, we know how important it is to have a distributor that delivers. At Advanced Controls & Distribution, we stock a wide variety of electrical products in our Western Pennsylvania and West Virginia warehouses and can now bring them right to your doorstep – quickly and effectively. This is just one more reason why we are working hard to become the preferred distributor for customers who care about quality, commitment and support. So whether your need is large or small, simple or complex, call us first because ... **we deliver!** •



INSIDE THIS ISSUE

Product Spotlight	2
Training Schedule	3
Who's Who	3
Specialized Training Events.	4

ACD

ADVANCED CONTROLS & DISTRIBUTION

WWW.ACDIST.COM

Motor Control Center @ Siemens



Motor control centers (MCC) have come a long way since they were introduced in 1937 as a way to save floor space by placing several starters in a single cabinet. Modern processes and facilities now dictate that motor control centers should display a high level of intelligence as well. They must deliver vital operating information; and provide automation features, optimal control, and critically fast communications to meet even the most demanding applications.

Ideally, the best-of the best must also save installation time and money. Siemens MCC's are designed as self-contained modular units. They come with rear-mounted, self-aligning copper stabs that firmly grasp onto the bus. Brackets also guide the placement of units, further assuring positive engagement with the bus.

TIASTAR MCC



Siemens TIASTAR MCC is based on the Furnas System/89TM MCC introduced in 1980 and represent the state-of-art motor control technology, with a modular, open architecture design. High performance and quality expectations have been researched at the planning stage and throughout the construction stage. The Siemens TIASTAR MCC has many features and options to meet your specific needs. Requirements such as the standard isolated

vertical bus to fully insulated vertical bus and standard 22mm to 30mm pilot devices. Heavy gauge steel is used for framing and side panel; 14 gauge steel barriers that are formed to provide rigidity and durability separate sections. The modular units implement all the motor protection and control functions, determine operational, diagnostic and statistical data, and organize communications data between the automation system and the motor feeder.

TIASTAR SMART MCC

Siemens TIASTAR Smart MCC with Open PROFIBUS-DP Communications combines heavy-duty construction and userfriendly features. These intelligent units deliver detailed diagnostics by interfacing starters, VFDs, Soft-Starters, circuit breakers, and power meters to PLC and DCS systems. MCC equipment can now deliver detailed motor management data at network speeds. PROFIBUS-DP, the backbone of the system, greatly reduces the usual I/O wiring and gateways are available to port the data to Modbus, DeviceNet, and Ethernet/IP. MCC starters can be supplied with SIMICODE motor management devices which provide microprocessor based motor control and protection. Simicode units also log and communicate operational, diagnostic, and statistical data used operator information and preventative maintenance purposes.

Thomas & Betts



Wire Management Systems

Managing the hundreds of thousands of feet of cable found in a typical construction job site can be a formidable challenge. Thomas & Betts offers hundreds of products to help wiring professionals route and conceal wiring. Leading T&B brands include T&B® cable tray, T&B Express Tray®, Steel City® floor boxes, Ty-Duct™ wiring duct and accessories, and Omni-Plus® voice/data accessories.

Ty-Duct™



Thomas & Betts' innovative new Ty-Duct products offer a total solution for routing and concealing wiring in control panels. Many different sizes are available to accommodate anything from the smallest wall mount panel to the larger integrated systems!

Terminals, Lugs, Connectors, Markers & Heatshrink



For over a century, Thomas & Betts has been a leader in providing a broad range of connectors suitable for the majority of all electrical applications. In fact, the high quality, easy-to-use, versatile connectors from T&B have continually helped define the standards used throughout the electrical industry. T&B's family of products includes many of the most-requested brands in the industry including Color-Keyed®, Sta-Kon®, Spec-Kon™, Shrink-Kon®, Snap-N-Seal®, Elastimold®, Blackburn®, and Marr®. Whatever the application - commercial, industrial, OEM, utility, residential, communications - and whatever the voltage - low, medium or high - we have the right connector for you. If we do not have it, we will custom design and manufacture products specifically suited to your application!

LUNCH & LEARN

Register for training with ACD at 1-800-866-7740

LUNCH & LEARNS AT OUR MONROEVILLE, PA OFFICE

LUNCH & LEARNS AT OUR ELKVIEW, WV OFFICE

SIMATIC S7-200

November 11, 2009

9:00am – 12:00 preceded by lunch

The S7-200 Micro PLC is truly in a class of its own: it is both compact and highly powerful – especially in relation to its real-time performance. It is fast, features great communication options and comes with easy-to-operate software. Attend the S7-200 Lunch and Learn for a hands-on experience.

SIMATIC S7-200

November 13, 2009

9:00am – 12:00 preceded by lunch

The S7-200 Micro PLC is truly in a class of its own: it is both compact and highly powerful – especially in relation to its real-time performance. It is fast, features great communication options and comes with easy-to-operate software. Attend the S7-200 Lunch and Learn for a hands-on experience. •

Siemens new Sunlight Readable HMI



Processes are becoming more and more multi-layered and demands on

the functionality of machines and plants keep on growing. At the center of these forces are the operators. They must have access to information and knowledge in a timely manner to make the best possible operation or process decisions; this is what effective Human Machine Interfaces (HMI) offer.

Siemens shapes the future of HMI technology and realizes it as cutting-edge solutions that turn complexity into simplicity. One of the newest evolutions in this are the new Multi-Panel 377 a 15" sunlight readable HMI.

Sunlight Readable Markets

- Oil & Gas
- Water / Waste Water
- Marine
- Vehicle
- Entertainment



What makes this Panel different?

- High contrast, 1000+ nit brightness, anti-reflective screen
- Dim to zero control via front control or interface pot
- UV protected screen and front bezel
- High temperature and humidity ratings
- Marine certifications
- Hazardous location ratings, FM CID2, ATEX 2/22
- NEMA 4X
- Marine and O&G screen object library (better WinnCC Flex gauge)

Give the team at ACD a call at 1-800-866-7740 for more information.

Vince Gianfrancesco



Vince is one of our longest tenure sales people. Vince's territory includes the 79 corridor from

Cranberry Township north up to Lake Erie. He is very technical and has a great understanding of the OEM and Industrial end-user markets. Vince is a graduate of Penn State and resides in Cranberry Township.

Give Vince a call at 412-600-5885 or call Willa McCune his inside support salesperson. •

ACDCONNECT Available Soon Online.

The ACD CONNECT newsletter will soon be available online. To receive your newsletter electronically, send an e-mail to Steve Battaglia (sbattaglia@acd.com) with the subject line: ACD CONNECT VIA EMAIL.



SPECIALIZED TRAINING EVENTS

SITRAIN™ TRAINING EVENTS AT ACD*

Register for trainings at www.sea.siemens.com/training or call ACD at 1-800-866-7740.

SIMATIC® S7 S7 TIA Programming 1

Nov. 30, 2009; Mar. 8, June 14, Aug. 30 and Dec. 6, 2010

This course is the first in a three part series, which builds basic programming skills with Siemens STEP7 software. Students will learn S7 project management, program design and application development. This is an aggressively paced curriculum covering the S7 programming editor with Ladder, Function Block Diagram, and Statement List programming languages, and key software tools. This course takes a systems approach to the S7300/400 PLC's, plus basic connectivity and functionality of an HMI and PROFIBUS remote I/O.

Throughout this course, students will build a STEP7 project from the beginning, learning proper program structure and documenting. Software diagnostic tools will be used for debugging both hardware and code. Various instruction sets, memory areas, program blocks, and libraries will be introduced to provide the student with solid concepts of structured programming.

The course format consists of instruction and hands-on exercises. The course uses a conveyor model for realistic demonstrations and exercises.

Upon completion of this course, the student shall be able to:

- Complete a system hardware configuration.
- Build, document, test and troubleshoot a structured STEP7 program.
- Program using the multiple address types.
- Use symbolic addressing.
- Use core application instructions, functions and blocks.
- Program using the processed analog values.
- Generate data blocks.
- Establish connections to an HMI system.
- Integrate an HMI to Control the Automation system

SIMATIC® S7 S7 System Tools & Troubleshooting 1

Apr. 5 and Oct. 4, 2010

This course provides students with a solid base of STEP 7 PLC tools and skills necessary for successful system diagnostics and repair. This course is ideal for environments with high uptime requirements and stable control system programs. Fully functional application programs are used as a baseline for the student to understand key process flow information, diagnostics tools and repair techniques. This course also focuses on core hardware issues for system commissioning, upgrades or system repair needs. Build skills and reduce downtime with this focused automation system-troubleshooting course.

Modular in design, this course is fully customizable for those interested in on-site training. Topics can be added or removed to meet specific needs. Call 1.800.241.4453 for more details.

Upon completion of this course, the student shall be able to:

- Identify and maintain the components of a typical automation system.
- Perform basic hardware assembly, cabling, wiring and testing.
- Establish communications with the PLC with multiple technologies.
- Use standard S7 tools for testing and debugging hardware and software problems in an existing program.
- Retrieve, Archive, and Download programs.
- Use the hardware configuration editor to inspect and troubleshoot hardware problems.
- Use SIMATIC Manager tools for basic program administration tasks.
- Follow program power/logic flow and interpret/modify basic program elements

*each class is a 4 1/2 day course

ADVANCED CONTROLS & DISTRIBUTION



1100 RICO ROAD, EAST BUILDING
MONROEVILLE, PA 15146
WWW.ACDIST.COM

TRAINING SCHEDULE
LUNCH & LEARN

LUNCH & LEARNS AT OUR
MONROEVILLE, PENNSYLVANIA OFFICE

SIMATIC S7-200
November 11, 2009
9:00 am

LUNCH & LEARNS AT OUR
ELKVIEW, WEST VIRGINIA OFFICE

SIMATIC S7-200
November 13, 2009
9:00 am

MORE DETAILS INSIDE THIS ISSUE
REGISTER AT ACD: 1-800-866-7740