

ACD CONNECT

PA: PITTSBURGH, ERIE, STATE COLLEGE | WV: MORGANTOWN, CHARLESTON

ACD TO HAVE A TECHNOLOGY EXPO IN ALTOONA

ACD will be holding a Mini Trade Show at the Allegheny Mountains Convention and Visitors Bureau in Altoona, PA May 25th from 10am until 4pm. We will be offering a continental breakfast and lunch. Siemens Automation, Drives, Motion and control platforms will be on display. In addition, many of our other manufacturers will be on hand such as Saginaw Enclosures, Ferraz Shawmut, Acme Electric, Federal Signal, Akron Electric, Omron/STI, Liebert, Thomas and Betts and Weidmuller just to name a few. We will have demos, factory representatives and ACD Engineers on hand too answer any technical questions you may have. Please save May 25th in you calendar and come meet the ACD team. Walkins are welcome; however, we ask that you contact Mark Jozwiak at 800-866-7740 or mjozwiak@acdlist.com to pre-register for this event. •



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ADVANCED CONTROLS & DISTRIBUTION

WWW.ACDIST.COM



Industrial Open Core and Coil Control Transformers

The HPS Spartan™ line of industrial open core and coil control transformers are ideally suited for general purpose, industrial and light duty loads. Designed for applications where high inrush or machine tool duty is not necessary, the HPS Spartan offers an efficient and economical solution. These units are well suited for HVAC applications, signal and alarm systems, motor control circuits, lighting and circuit isolation.

The HPS Spartan control transformer is an open style unit with molded terminal blocks from 50VA up to 3000VA or 30 amps. Optional finger guards and a fuse block adapter kit are available upon request. For an economical approach to control transformers, the HPS Spartan is the transformer of choice.

Key features:

Molded terminal blocks for primary and secondary connections from 50VA up to 3000VA or 30 amps; coil face termination over 3000VA or 30 amps.

- All terminal blocks utilize a combination slot/Phillips #6 screw with a SEMS washer. Coil face terminations utilize a 1/4 - 20 UNC X 0.50" combination slot/Phillips screw and a spring lock washer.
- Ten standard voltage groups.
- 50/60 Hz (60 Hz on SP***ACP and SP***AR).
- Copper wound coils with high dielectric strength insulation.
- CSA Certified, UL Listed, CE Marked and RoHS Compliant.
- Meets NEMA standards.
- 15-year warranty.



NEW Product Spotlight The HS35R Incremental Optical Encoder

The Key Benefits of the New Design are Listed Below

- Improved shock and vibration resistance
- Larger mechanically held bearings
- Improved sealing for better protection against contamination

Dynapar encompasses the broadest line of trusted brands in motion feedback control, including encoders and Hengstler brand encoders and absolute rotary encoders, Northstar heavy-duty magneto-resistive, encoders, and high-performance Harowe brand resolvers. Only Dynapar feedback solutions offer these world-class rotary feedback brands from one Global Supplier with 3-day delivery on most models for

customer peace of mind.

SIEMENS NEW S7-1200 CPUs

Interplay makes the difference

The new modular SIMATIC S7-1200 controller is at the core of our new offering for simple but highly precise automation tasks. The SIMATIC S7-1200 controller is modular and compact, versatile, a secure investment, and is powerfully fit for a full range of applications.

A scalable and flexible design, a communication interface that fulfills the highest standards of industrial communication and a full range of powerful integrated technology functions make this controller an integral part of a complete and comprehensive automation solution.



The optimized performance of our SIMATIC HMI Basic Panels, designed for seamless compatibility with this new controller and the powerfully integrated engineering system, ensures simplified development, fast start-up, precise monitoring and the highest level of usability. It's the interplay between these

products and their innovative features that give you an unprecedented level of efficiency for small automation systems.

Benefit

- It's the Interplay
The optimized performance of our SIMATIC HMI Basic Panels, designed for seamless compatibility with this new controller and the powerfully integrated engineering system, ensures simplified development, fast start-up, precise monitoring and the highest level of usability.
- A modular concept for compact automation in a scalable design.
The SIMATIC S7-1200 features an integrated PROFINET interface, powerful integrated technology functions and a highly scalable and flexible design. This enables simple communication, efficient solutions for technological tasks, and perfectly fits individual automation requirements in a wide variety of applications.
- Highest efficiency in engineering

SIMATIC S7-1200 is programmed via the new and fully integrated engineering system SIMATIC STEP 7 Basic with SIMATIC WinCC Basic. SIMATIC STEP 7 Basic is designed to be intuitive, easy to learn and easy to use. This provides you with highest efficiency in engineering. Smart functionalities such as intuitive editors, drag and drop functionality as well as "IntelliSense" tools simply let you engineer faster. This new software architecture comes from a stable source for future innovations - Siemens has many years of experience in software development and has thus made SIMATIC STEP 7 Basic highly future-oriented.

ACD will be offering workshops in our Monroeville Pa location on April 27, 2010 and at our Elkview WV office April 28. Please call 1-800-866-7740 to sign up for these events.

Lenze NEW SMVector frequency inverter – NEMA 4X AC Tech (IP65) with Integral Disconnect

Our most technically advanced inverter drive continues Lenze - AC Tech's tradition of innovative compact inverter design. The performance and flexibility make the SMVector an attractive solution for a broad range of AC Motor applications and with several communications protocols available, networking drives and components into a system solution can be done now or in the future.



The SMVector with Integral Disconnect is available in a rugged NEMA 4X (IP65) indoor enclosure ideal for many industries including food / beverage, waste water, chemical metering and processing, pharmaceuticals and more... The integral disconnect switch offers the ability to isolate the motor for maintenance and servicing. Also – the disconnect switch handle is lockable and is made of red and yellow materials for high visibility.

The power ranges of the SMVector in NEMA 4X with Integral Disconnect include:

- 120/240V – 1Phase Input, up to 1.5 HP (1.1kW)
- 200/240V – 1 or 3 Phase Input, up to 3.0 HP (2.2 kW)
- 200/240V – 3 Phase Input, up to 30 HP (22 kW)
- 400/480V – 3 Phase Input, up to 30 HP (22 kW)
- 480/600V – 3 Phase Input, up to 30 HP (22 kW)

The SMVector Series can be used with 3-phase AC induction motors and is available in NEMA 1 (IP31), NEMA 4X (IP65) ¹ and NEMA 4X (IP65) ¹ with an integral disconnect switch. Filtered input versions of the SMV are available in NEMA 4X (IP65) models for compliance with the CE EMC directive.

Programmable digital and analog I/O allow the drive to be configured for many application specific tasks such as multiple preset speeds, electronic braking and motor jogging to name a few. Like all Lenze - AC Tech sub-micro drives, the SMVector uses EPM memory technology for fast and efficient programming.

¹ type 4X (IP65) enclosures are available for either indoor use, suitable for most indoor industrial environments; or indoor/outdoor use that offers UV protection and has higher impact strength at low temperatures.

WORKSHOPS

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

WORKSHOPS AT OUR MONROEVILLE, PA OFFICE

NEW SIMATIC S7-1200 - Compact Controller with Advanced Functionality

April 27, 2010 starting at 9:00am

The S7-1200 is a new modular space-saving controller for small automation systems that require either simple or advanced functionality for logic, HMI and networking. It is both compact and highly powerful—especially in relation to its real-time performance. It is fast, features great communication options, and is programmed with easy-to-operate, easy-to-learn software. Attend the S7-1200 Workshop for a hands-on trial!

Siemens Standard Drives - ROI

May 12, 2010 starting at 9:00am

In this training course, you will learn exciting new ways to leverage unique tools and innovations from Siemens to reduce your energy usage.

Ethernet Infrastructure Hands On

September 14, 2010 starting at 9:00am

This event will show how to implement an effective industrial Ethernet solution on the plant floor. Topics to be covered include the configuration and network management of Managed Switches, setup and configuration of wireless architectures, setting up a simple firewall, and protection from an unauthorized network.

SIMATIC RF300 - Basics of Radio Frequency Identification

November 10, 2010 starting at 9:00am

This event will introduce both the RF300 system and the S7 FB45 RFID programming functions. Some of the topics to be covered in the session include basic RFID concepts, hardware and software architectures, communication capabilities, and programming RFID Systems.

WORKSHOPS AT OUR ELKVIEW, WV OFFICE

NEW SIMATIC S7-1200 - Compact Controller with Advanced Functionality

April 28, 2010 starting at 9:00am

The S7-1200 is a new modular space-saving controller for small automation systems that require either simple or advanced functionality for logic, HMI and networking. It is both compact and highly powerful—especially in relation to its real-time performance. It is fast, features great communication options, and is programmed with easy-to-operate, easy-to-learn software. Attend the S7-1200 Workshop for a hands-on trial!

Siemens Standard Drives - ROI

May 13, 2010 starting at 9:00am

In this training course, you will learn exciting new ways to leverage unique tools and innovations from Siemens to reduce your energy usage.

Ethernet Infrastructure Hands On

September 15, 2010 starting at 9:00am

This event will show how to implement an effective industrial Ethernet solution on the plant floor. Topics to be covered include the configuration and network management of Managed Switches, setup and configuration of wireless architectures, setting up a simple firewall, and protection from an unauthorized network.

Shane Sample



Shane has been with ACD for almost two years. During his tenure as an inside salesperson sales in the West

Virginia office have continued to grow. Shane brings with him years of experience in the electrical field having spent over 13 years working for Graybar Electric Company. Shane works out of our Elkview West Virginia office, which is only a few miles north of Charleston West Virginia the state capital. Give Shane a call at 304-965-6111. •

ACDCONNECT Available Online.

The ACD CONNECT newsletter is now 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.

NEW SIMATIC® S7 S7 TIA Programming 2

Weeks of: August 30 and December 6, 2010

This course is the second in a three part series, which increases skills with Siemens STEP7 Totally Integrated Automation. Students will learn to leverage the power of Simatic software with advanced structured programming techniques. A systems approach to the integration of efficiently programming the S7300/400 PLC's, plus connectivity and functionality of an HMI and Micro Master Drive are the central focus of this course. Emphasis on Statement List (STL) programming for both direct and indirect addressing is an integral part of the course.

The core issues of efficient use of CPU resources, establishing communications, passing information, and managing integrated diagnostics are included. Skills in error management and extended diagnostics are

reinforced throughout this agenda. This course includes classroom instruction, demonstration and considerable hands-on lab work.

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

- Understand the concepts of structured program creation.
- Leverage the power of Block and Function libraries.
- Use STL for advanced program development.
- Employ indirect addressing in a program.
- Incorporate System Functions (SFC) in a program.
- Integrate an HMI and Drive system with the PLC.
- Use Instance and Multi-Instance data Blocks.
- Use interrupt-driven and error processing program execution blocks.
- Leverage STEP7 advanced diagnostics

SPECIALIZED TRAINING EVENTS

SITRAIN™ TRAINING EVENTS AT ACD*

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SIMATIC® S7 S7 TIA Programming 1

Week of: June 14, 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

Week of: October 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.
- Access system support tools and information pertinent to maintaining equipment uptime

*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
WORKSHOPS

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

NEW! SIMATIC S7-1200	April 27, 2010 9:00 am
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WORKSHOPS AT OUR
MONROEVILLE, PENNSYLVANIA OFFICE