The Controller
January

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"Advanced technological solutions at an affordable cost."

LOGIC
Technologies, Inc.

Ideas for articles of interest?
Please submit articles or requests to:
lauren.s@logictechnologies.com

WHAT IS OPEN-ARCHITECTURE?

BY LAUREN SCHUSTER

The open–architecture term is more than an industry buzzword, it is actually a specification.

"An architecture whose specifications are public. This includes officially approved standards as well as privately designed architectures whose specifications are made public by the designers. The opposite of open is closed or proprietary."

Our SST systems definitely adhere to the specification. All system–specific source code is provided to the end–user along with a robust interactive development environment that can be used to further enhance the system. The systems are implemented on logical mechanical system–component levels. The user–interface provides screens to allow authorized users to define control procedures based on the logical components of the system.

The input and output definitions of the system are stored in a signal database. Tools are provided on the user interface screens to allow authorized users to quickly modify and/or add system digital and analog I/O points. A trained

Training Information and Schedule

Training Enrollment

LOGIC Technologies, Inc. conducts in-depth training sessions at our facility on a monthly basis. Two free sessions are included with each system purchased. Additional training sessions are available for a nominal fee. Operator training sessions are $850 per person and advanced training sessions are $950 per person. We provide lunch for each class day; however, all other travel expenses are your responsibility.

Operator-Level Sessions

This class session provides overview coverage of the use of our system to maintain the daily operations of a refrigerated facility. The class is conducted by one of our senior engineers who have many years of experience designing refrigeration control systems. In effect, the classes are taught in layman's terms by someone who fully understands the issues faced by refrigeration operators.

February 10-12
March 10-12
April 14-16
June 9-11
July 14-16
September 8-10
October 13-15
December 8-10

Advanced SST Sessions

This class session provides in-depth coverage of the screen and report development tools. Also, briefly covering the script language used to develop control algorithms. These classes are conducted by senior members of our engineering staff. Prior technical and basic programming knowledge is a pre-requisite for this course.

May 12-14
August 11-13
November 10-12

* Seating is limited, make your reservations early by contacting:
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operator can accomplish system enhancements that require little or no assistance. A system can even be configured to monitor and control I/O rack chains provided by multiple manufacturers simultaneously.

The standard system provides functionality to implement all common procedures related to environmental control processes through simple graphic screen-based configurations. The control programs are developed using a simple script language. If control level algorithms require modification or additional functionality (highly unlikely), the eCON client application suite provides all tools required for operational experts to modify/create and deploy programs or procedures.

KOYO PLAN

BY PAUL JASCZYNSKI

Logic Technologies Inc. has been informed by KOYO that the current DL305 Product line will not be available for purchase starting January 1, 2021.

However this does NOT MEAN that your current Logic ECON 8000 System is obsolete. There are several good support options that are available to you to support your system for many years to come including:

-Buying Critical Spare Parts

-Upgrading your System

At our Stockbridge facility, we do maintain an inventory of KOYO DL 305 products. Our long term goal is to maintain as much inventory as possible for as long as we can, however, we are encouraging each customer to work with Logic on a system support plan.

The DL305 product line are the I/O products that are currently used in your ECON 8000 System. We want to assure you that your system is not obsolete but it would be an excellent idea to have critical spare parts for your system. Down the road we can offer several different upgrade solutions. If you would like us to review your system please send a LOGIC Technologies Inc. employee an email with the subject line 'KOYO Obsolescence', we will review your system and come up with a plan of action and assist you with this change.

UPS BATTERY CHECK

BY PAUL JASCZYNSKI

Remember to check your UPS uninterruptable power supply. Your UPS is critical to your system during a power outage and your critical loads depend on it.

Tips to Troubleshoot

–Make sure your UPS is plugged in and powered on

–Check the fuse if one is present

–Check power wiring – Are you getting power to the UPS?

–Connect your most important equipment

If you need help don't hesitate to contact us!

SCREW COMPRESSOR MICRO-CONTROLLER

BY LAUREN SCHUSTER

Do you have screw compressors in your engine room that are mechanically sound but could really use a technological face-lift? Do you think the cost-prohibitive proprietary controllers provided by various compressor manufacturers represent your only option? Our screw compressor micro-controller has been successfully installed to control Frick, FES, Vilter, Mycom, and Bitzer compressors.

Our open-architecture retrofit screw compressor control package is the solution you're looking for. The eLOGIC controller is based on our Signal Server Technology design platform and over 40 years of experience in the design, development, and implementation of scalable refrigeration control systems.

-Manufacturer Independent:

Quickly and easily configured to control most screw compressor packages.

-Intuitive 3D Graphic User Interface:

Designed for use by refrigeration technicians, not computer programmers.

-No Proprietary Hardware:

Built on the industry-standard PC104 buss architecture.
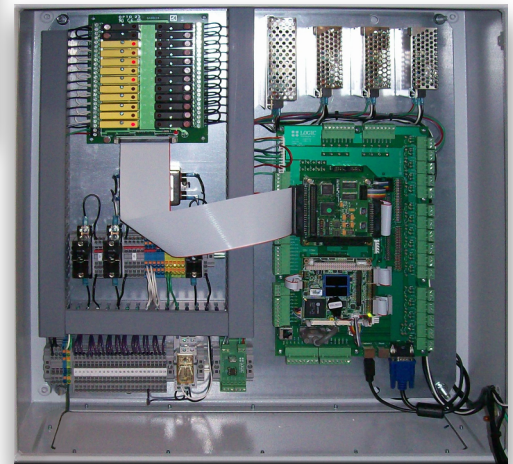
-Full 24/7/365 Support:

Support provided by the engineers that design and implement systems.

-Cost-Effective:

Priced to fit your budget considerations.

Hardware Features:

Enclosure:	NEMA12 24" w x 24" h x 8.5"d
	(NEMA4 available)
CPU:	Pentium Class CPU
Memory:	Up to 512MB DDR2 RAM
Storage:	2GB Compact Flash
	(PATA Hard-disk Optional)
Monitor:	15" LCD Resistive Touch-Screen
	(1024x768 Resolution)
Digital I/O:	Up to 48 - Opto22 G4 Series
Analog I/O:	16 - Inputs / 8 - Outputs
Comm. Ports:	10/100 Ethernet, 3 - RS232,
	1 - RS422/485
(Expandable)	

SYSTEM TAKEOVER SOLUTIONS

BY LAUREN SCHUSTER

If you have an existing refrigeration controls system (Allen Bradley, Rockwell. Opto22, Snap I/O) and you would like to enhance or update it, we can provide several cost effective options.

Option 1: Replacing the existing HMI computer system but maintain the existing I/O and field wiring.

With this option, we review the current system and work with the customer to understand the goals of the refrigeration system. Typically, we add a new Industrial Controller with refrigeration software, custom graphics, 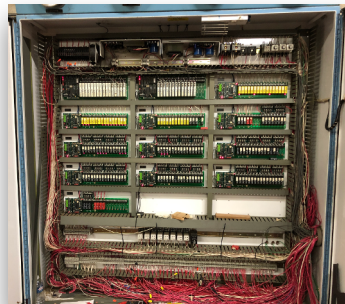a remote computer workstation, 4G modem and cell service. We schedule a startup where we interface to the existing I/O and then bring the refrigeration equipment on line. Since the I/O stays in place, the overall cost for this upgrade is significantly less than a brand new system.

Option 2: Upgrading the complete System.

With this option, we again review the goals of the refrigeration system. Often we utilize the wiring in the existing cabinet and wire from the existing cabinet to the new control cabinet. We then provide a new Industrial Controller with refrigeration software, custom graphics, remote computer workstation, a 4G Modem and cell service. We schedule a startup and then bring the refrigeration equipment on line in a timely manner.

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Address Correction Requested