Lab-Volt is the proud recipient of more International Worlddidac Awards for product excellence than any other manufacturer of scientific and technological training apparatus for student and classroom use. Lab-Volt serves thousands of trade schools, colleges and universities, educational ministries, military training centers, and industrial plants throughout most countries in Africa, Asia, Europe, the Middle East, Pacific Rim, and the Americas.

To meet the needs of its global customers, Lab-Volt has sales offices and manufacturing plants in the United States, Canada, Malaysia, and Colombia, along with a network of factory-trained staff strategically placed around the world.

Lab-Volt is proud to continue the tradition of excellence that has become its international trademark.

**Electric Power and Controls**
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- Antenna
- Telephony
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PLC Training Systems

**Model 3240-20**

PLC: Allen-Bradley MicroLogix 1200

- Digital I/Os; 14 inputs (24 VDC), 10 Outputs (Relay - 24 VDC or line voltage, selectable)
- 24 VDC built-in power supply
- Twelve fault switches
- PID Capability
- Easy expansion using rackless I/O modules
- Three push-button and four toggle switches
- Direct connectivity with the Mechanical Process Simulator (Model 3290) and PSIM 2000 Simulator
- Compatibility with MicroLogix and SLC instruction set
- Requires the RSLogix 500 programming software (Model 3245-A) and programming cable (3246-40)
- Includes curriculum

**Model 3240-A0**

PLC: Allen-Bradley MicroLogix 1100

- Used by DeVry University for their PLC course
- Built-in 10/100 Mbps Ethernet/IP port for peer-to-peer messaging
- Embedded Web server and LCD screen
- Online editing functionality
- Digital and Analog I/Os; Digital (24 VDC): 10 inputs (one 40kHz high-speed), six outputs (two 40 kHz high-speed); Analog (0 - 10 VDC): two inputs
- PID Capability
- Five push-button and five toggle switches
- 24 VDC built-in power supply
- Easy expansion using rackless I/O modules
- Onboard traffic light simulator
- Compatibility with MicroLogix and SLC instruction set
- Requires the RSLogix 500 programming software (Model 3245-A) and programming cable (3246-40)

**Model 3270-40**

PLC: Allen-Bradley MicroLogix 1000

- Compact design
- Digital I/Os: 10 inputs (24 VDC), six outputs (Relay - 24 VDC)
- No possible expansion
- No PID Control
- Form-factor compatible with the Hydraulic/Pneumatic perforated work surfaces and the 8036 Industrial Controls workstations
- Compatibility with MicroLogix and SLC instruction set
- Requires the RSLogix 500 programming software (Model 3245-A) and programming cable (3246-40)
- Used with Hydraulic and Pneumatic Systems, Models 6080 and 6081; includes curriculum
PLC: Omron CPM1A

Model 3270-50

- Compact design
- Digital I/Os: 12 inputs (24 VDC), eight outputs (Relay - 24 VDC)
- No possible expansion
- Requires a 24 VDC power supply (Model 6360)
- Requires CX Programmer programming software (Model 3245-20) and programming cable (Model 3246-20)
- Form-factor compatible with the Hydraulic/Pneumatic perforated work surfaces and the 8036 Industrial Controls workstations
- Used with Hydraulic and Pneumatic Systems, Models 6080 and 6081; includes curriculum

PLC: Siemens SIMATIC S7-222

Model 3270-60

- Compact design
- Digital I/Os: eight inputs (24 VDC), six outputs (Transistor - 24 VDC)
- Requires a 24 VDC power supply (Model 6360)
- Fully configurable, integrated PID controller
- Form-factor compatible with the Hydraulic/Pneumatic perforated work surfaces and the 8036 Industrial Controls workstations
- Requires STEP7 Micro/Win programming software (Model 3245-30) and programming cable (Model 3246-30)
- Used with Hydraulic and Pneumatic Systems, Models 6080 and 6081; includes curriculum

PLC: Allen-Bradley CompactLogix L32E

Model 5930-00

- Digital I/Os: 16 inputs (24 VDC), 16 outputs (Relay - 24 VDC)
- Built-in 24 VDC power supply
- Eight fault switches
- PID Capability
- Easy expansion using rackless I/O modules
- Can be programmed using four languages: Relay ladder, structured text, sequential function chart, and function block diagram
- Supports three types of network communications: DF1 Full Duplex Serial Link (RS-232-C), Ethernet/IP, and DeviceNet
- Requires RSLogix 5000 Lite Edition programming software (Model 5935) and a standard RJ45 cable
- Used with S901 Flexible Manufacturing System; includes curriculum

PLC: Moeller EASY512

Model 3128-00

- Compact design
- Digital I/Os: eight inputs (24 VDC), four outputs (Relay - 24 VDC)
- LCD Display
- Two of the eight digital inputs can be configured as 0-10 VDC analog inputs
- Requires a 24 VDC power supply (Model 3139)
- Form-factor compatible with the 8036 Industrial Controls workstations
- Includes EASY-SOFT Basic programming software and programming cable
- Used with 8036 Industrial Controls System; includes curriculum
**PLC Applications**

**Model 3290 – Mechanical Process Simulator**

- Compatible PLCs: Refer to chart on page 7
- Simulates a variety of industrial mechanical processes
- Sequential, on/off control of typical production lines involving linear position control
- Seven limit switches
- Four solenoids simulate process loads that can be activated through PLC outputs
- Each solenoid, when energized, actuates a plunger switch, causing a pilot lamp to turn on
- Includes job sheets

**Model 5901 – Flexible Manufacturing System**

- Compatible PLCs: Refer to chart on page 7
- Simulates the operation of a production line in a classroom laboratory using the latest manufacturing technology equipment
- Very complete, modular application
- Powerful PLC with Ethernet and DeviceNet Networks
- Variety of sensors
- Power electronics
- Pneumatic devices
- Servo Control (advanced)
- Operator Panel (advanced)
- Artificial Vision (advanced)
- Complete software solution
- Fault Insertion
- Wiring skills
- Includes job sheets

**Model 8075-10 – Traffic Light System**

- Compatible PLCs: Refer to chart on page 7
- A well-known classic training system
- N-S/E-W traffic control with pedestrian crossing (optional second Traffic Light model required)
- Another unit can be added to create a full, four-directions traffic light
- Flow management with proximity detectors (optional)
- Traffic light synchronization
- Fault insertion
- LEDs (long life)
- 10 24 VDC control inputs
- Includes job sheets
**Model 8075-20 — Electro-Pneumatic System**

- Compatible PLCs: Refer to chart on page 7
- Two double-acting cylinders
- Two reed switches and mechanical limit switch for PLC feedback
- Perforated work surface
- Control valve station featuring single- and double-solenoid valves
- Applications: Stamping, hold and punch, filling process, etc.
- Fault insertion
- Accepts three 24 VDC control signals from PLC
- Includes job sheets

**Model 8075-30 — Electro-Mechanical System (DC Motor)**

- Compatible PLCs: Refer to chart on page 7
- Explores drives and lead screw positioning systems used in motion processes
- Industrial 1800 RPM, 90 VDC motor
- Two magnetic limit switches for PLC feedback
- Bi-directional, regenerative DC drive
- Perforated base to accommodate optional sensors
- Fault insertion
- Optional 100 ppr Optical Encoder
- Accepts three 24 VDC control signals from PLC
- Includes job sheets

**Model 8075-40 — Electro-Mechanical System (Stepper Motor)**

- Compatible PLCs: Refer to chart on page 7
- High-torque stepper motor
- Stepper motor drive programmed by computer using manufacturer software
- Programmable stepper motor drive
- Motion sequences triggered by the PLC I/Os
- Lead screw mechanism
- Two magnetic limit switches for PLC feedback
- DC power supply
- Perforated base to accommodate optional sensors
- Fault insertion
- Optional 100 ppr Optical Encoder
- Accepts eight 24 VDC control signals from PLC
- Includes job sheets
Model 8075-60 – Level Process Control System

- Compatible PLCs: Refer to chart on page 7
- Submersible variable speed pump
- Level process column
- Electronic level process Interface
- Float switch
- Capacitive level switch
- Magnetic level switch
- Solenoid valve
- Manual valve
- Optional analog level sensor
- Self-regulating process allows a variety of PLC control schemes
- Explore batch and PID control (dependent on PLC specifications)
- Includes job sheets

Model 8075-70 – Bottling Process System

- Compatible PLCs: Refer to chart on page 7
- Film canister capping process
- Compact application combines pneumatics, motion control, and PLC sequencing
- Two high-torque stepper motors
- Dual stepper motor drive
- Inductive proximity switch
- Mechanical switch
- Single solenoid directional valve
- Double-acting cylinder
- DC power supply
- Perforated work surface
- Dual stepper motor drive can be used as a Step/Dir or Jog/Dir drive
- Optional accessories allow containers to be filled with liquid during process
- Includes job sheets

Model SW91773 – P-SIM 2000

- Compatible PLCs: Refer to chart on page 7
- PLC process simulation software
- Built-in ladder logic program editor
- Typical processes graphically displayed and animated on-screen.
- Real-life responses to PLC ladder logic
- Optional P-SIM to PLC Interface, Model 3243, allows programming on Model 3240 or Model 3270 PLC, and control of on-screen animated P-SIM simulations
- Includes curriculum
<table>
<thead>
<tr>
<th>Model</th>
<th>Image</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3139;6360</td>
<td><img src="image1" alt="3139" /> <img src="image2" alt="6360" /></td>
<td><strong>DC Power Supply:</strong> Some Lab-Volt PLCs do not feature built-in DC power supplies. However, these two PLCs are generally components of systems that already include the required 24 VDC supplies. Model 3139 is part of the 8038 Industrial Controls system. Model 6360 is part of the Hydraulic and Pneumatic Systems, Models 6080 and 6081.</td>
</tr>
</tbody>
</table>
| 3201-3204   | ![3201-3204](image3) | **3201: Push-Buttons/Lights** - Features two NO and one NC momentary push-button, and three LED indicator lights. Can simulate a Start/Pause/Stop station with indicator lights.  
**3202: Toggle Switches/Lights** - Features three toggle switches and three LED Indicator Lights.  
**3203: Rotary Switch** - Features two rotary switches with NO and NC contacts.  
**3204: Emergency Switch** - Features one emergency switch with two NO contacts (one for low voltage and the other for line voltage) |
| 3205        | ![3205](image4) | **Wiring Module** - This multi-purpose module allows easy interface between customers’ existing PLCs and 2 mm leads and jacks used with the Lab-Volt PLC Applications. This model can also be used to practice wiring skills using the terminal blocks. |
| 3210        | ![3210](image5) | **Optical Encoder** - This model is an optional add-on to the Electro-Mechanical applications. It provides position feedback (100 PPR) with signal levels compatible with the PLC 24 VDC inputs. |
| 5924        | ![5924](image6) | **Signal Tower:** The Signal Tower consists of three lights providing visual feedback of the state of a process. It can be used to indicate if an application is running, paused, or stopped. Lights are stacked one upon another, up to five modules (standard unit contains three modules). Each module is easily programmable without any special wiring or tools. An Acoustic Alarm, Model 39303, is available as an option. |
| 6085        | ![6085](image7) | **Sensors Training System** - This system contains a selection of photoelectric, inductive, and capacitive sensors representative of what can be found in industry. These sensors can be used with a variety of PLC applications. |
| 6410-A0     | ![6410-A0](image8) | **Portable Compressor** - The Air Compressor consists of a quiet 7.6-liter (two-gallon) air compressor. Its quiet pump and motor make it ideal for classroom and school laboratories. The Air Compressor can be used to provide compressed air to the Conditioning Unit, Model 6411-A. |
| 6411-A0     | ![6411-A0](image9) | **Conditioning Unit** - The Conditioning Unit consists of a main shutoff valve, a filter, a pressure regulator, a pressure gauge, a sleeve valve, and a muffler. It conditions and limits the pressure of the air supplied to the pneumatic circuits. The Conditioning Unit must get its compressed air from a central air supply or a portable unit such as the optional Air Compressor, Model 6410-A. |
## PLC Applications

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<td>6082-50</td>
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<td><strong>Model 3270-40</strong>: Allen-Bradley MicroLogix 1000</td>
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<td><strong>Model 3270-50</strong>: Omron CPM1</td>
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<td>6082-70</td>
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<td><strong>Model 3270-60</strong>: Siemens SIMATIC S7-222</td>
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<tr>
<td>8075-60</td>
<td>Level Process Control System</td>
<td><strong>Model 3240-20</strong>: Allen-Bradley MicroLogix 1200 Other PLCs offer partial curriculum coverage.</td>
</tr>
<tr>
<td>8075-70</td>
<td>Bottling Application System</td>
<td><strong>Model 3240-A0</strong>: Allen-Bradley MicroLogix 1100 Other PLCs offer partial curriculum coverage.</td>
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<td>91773</td>
<td>P-SIM 2000</td>
<td><strong>Model 3240-20</strong>: Allen-Bradley MicroLogix 1200 Model 3240-A0: Allen-Bradley MicroLogix 1000 Model 3270-50: Omron CPM1 Model 3270-60: Siemens SIMATIC S7-222</td>
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## Easy Reference Guide - PLC Applications and Components

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### PLC Compatibility

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<tr>
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<th>Allen Bradley MicroLogix 1100</th>
<th>Allen Bradley MicroLogix 1000</th>
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Opt = Optional equipment for advanced experimentation. (6410-A0 required if no alternate air source is available.)
P = Partial curriculum coverage only

---

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<table>
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<th>120V AC Inputs</th>
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<td>24 VDC</td>
<td>RS-232-C, Ethernet</td>
<td>No</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Allen-Bradley MicroLogix 1100</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>24 VDC</td>
<td>Peripheral Port (Expansion)</td>
<td>No</td>
<td>-</td>
</tr>
<tr>
<td>5930-00</td>
<td>Moeller EASY12</td>
<td>8</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>24 VDC</td>
<td>Peripheral Port (Expansion)</td>
<td>No</td>
<td>-</td>
</tr>
</tbody>
</table>

Fault Switches: Yes/No

Compatible with 3243-10 (P-SIM to PLC interface) and 91773-00 (P-SIM software)
OTHER PRODUCT LITERATURE AVAILABLE FROM LAB-VOLT

Lab-Volt Product Catalog on CD-ROM

Descriptions and demonstrations of Lab-Volt training systems and software. Includes FACET®, EMS, and other award-winning training systems.

Computer-Based Electronics Training System (FACET®) Product Guide

Forty-eight-page catalog of Lab-Volt training systems in Fundamental Electronics; Analog, Digital and Fiber Optic Communications; Semiconductors, Transistors, Thyristors, FET and Amplifiers.

Military Training Systems Brochure

State-of-the-art training systems for military applications in telecommunications, radar, electronic warfare, electronics, fluid power, and electric power technologies. 12-page color brochure.

Industrial Maintenance Brochure

Twelve-page color brochure showcasing Lab-Volt’s comprehensive industrial training systems, including industrial pumps, mechanical systems, industrial wiring, rigging, and more.

Electric Power/Controls Product Guide

Fifty-one-page catalog of Lab-Volt’s vast offering of training modules in Electro-mechanical systems, PLCs, Power Electronics, and corresponding CBT and simulation software programs.

E-Blocks™: Modern Electronics Teaching Resources

30-page catalog detailing E-Blocks™ small circuit boards, each of which contains a block of electronics typically found in an electronic system. E-blocks provide a very flexible set of parts for learning a range of technical disciplines.

Graymark Information Technology Brochure

Eight-page brochure of Graymark’s quality IT training products, including PC familiarization, troubleshooting and repair; cable installation; monitor and printer repair; GPS technology; and network technology programs.

Fluid Power Brochure

Twelve page 4-color brochure featuring Lab-Volt’s premier line of Fluid Power training systems, including the Hydraulics and Pneumatics Modular Training System.

Tech-Design® Foundations in Information Technology (FIT)

Sixteen-page color brochure features this modular, competency-based curriculum for Information Technology (IT), which provides skills development and career exploration in the four IT career Cluster Concentrations.

Engineering Education & Research for the 21st Century Brochure

This 15-page brochure details Lab-Volt’s engineering programs, which are designed specifically for instructional purposes and comprise integrated learning systems that are fully compatible electrically, mechanically, and educationally.

Tech-Design® Technology Education Catalog

Seventy-four-page catalog with detailed descriptions of 43 Tech-Design modules and course objectives, including skills-at-a-glance charts showing competencies associated with each module.

Industrial Training Zone by Lab-Volt

11-page Industrial Training Zone by Lab-Volt brochure details the broad range of online industrial training courses designed to help you build a more competent, qualified, and efficient workforce.

4 Easy Ways to Order Additional Product Literature:

- Send e-mail to: us@labvolt.com (USA)  ca@labvolt.com (Canada)
- Call us at 1-800-LAB-VOLT (USA AND CANADA) or 1-732-938-2000 (outside of the USA and Canada)
- Visit our website at www.labvolt.com
- Circle the requested items above and fax it: 1-732-774-8573

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