Affordable and powerful equipment to learn about or get trained in ladder logic and PLC programming.

PLC TRAINERS

If you look for affordable and powerful trainers, that allow you to learn with real practice, this is for sure you best choice.
If you plan to develop automation projects, these trainers will help you in having your prototypes up and running in no time.

Used by:
Australian RMIT, TAFE y Old Dominion University, Purdue University, State University of New York, Sait Polytechnic (Canada), Torreon University (Mexico), Kent State University, Florida International University , Miami Dade College, Sena Colombia, and many other colleges and universities around the world.

More New Technologies: You can learn the classical concepts or you can innovate with new approaches in the changing world of industrial automation.

Extremely Low Cost: For the cost of a PLC you can buy a complete trainer with pushbuttons, switches, relays, LEDs and power supply..

Not only Educational But Real: These PLCs are used for many multinationals. Anyone or any educational center can take his application to the real world..

More Control Techniques: You can learn more technologies besides the classical ladder programming such as BASIC.

More New Topics: Could you imagine monitoring and controlling trough EXCEL ® ? You can also operate our PLCs over the Internet. Try robotics and telemetry.

More Learning Levels: Learners can begin to work with simple and smaller PLCs before using higher technologies or more expensive equipment.

The world of automation is in constant change. Most of the industries have or use more than one automation brand. This is the good part of technology: some manufacturers can have really good products in one automation application but can be overpassed by some other brands in other fields. Perhaps, this is the reason that makes your company to use different PLCs although they unsuccessfully want to use just one brand.

Our **low cost PLC** training equipment, unlike most of our competitors, is specifically designed for **every PLC brand** so it is not a matter of re-labeling the connectors: We really manufacture every PLC trainer.

If you are an EDUCATOR looking for the best way to provide a course on Programmable Logic Controllers PLCs)

✓ Affordable costs, allowing you to acquire more training units with limited budgets. Our suggestion is that you have one or two students per PLC trainer.
✓ We cover more topics. Your students can do better and more sophisticated projects.
✓ You can allow the students to install the programming software in their PCs or Laptops and, since it has a complete simulation , they can work at home in practicing and studying by themselves or working on the homework you have previously assigned .

✓ You can impart more hands-on experience. Every class can be a different project that can be downloaded to the PLC trainer.
✓ You can provide a non biased education, avoiding focusing on particular or commercial brands but generic devices. When the students become professional they will thank you.
✓ The students will be able to program several market brands so they will be more competitive for any job the apply.

305-207-0076 Phone   888-832-7586 Toll Free   sales@latin-tech.net

Our Models

Latin-Tech Inc

A good way to start learning about PLCs. Six inputs/ four outputs with capabilities to connect and control real loads. Includes simulator software.

PTS E10

For second steps and knowledge, this is the lowest cost trainer has it all: analog, digital, Ethernet, Ladder+ Basic. Includes simulator software.

PTS NANO

A basic super PLC trainer with more features: analog and digital inputs and outputs, Ethernet, Serial ports, display. Ladder+ Basic.
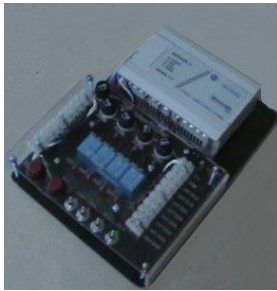Includes simulator software.

PTS F888

A super PLC trainer with many more features: more analog and digital inputs and outputs, Ethernet, three serial ports, Infrared port, display. Ladder+ Basic.
Includes simulator software.

PTS F1616

Other Brands

Allen Bradley

PTS 10BXB

A brand which is recognized as one of the world´s leader. This trainer helps you to understand the basics in how to program an Allen Bradley´s PLC .

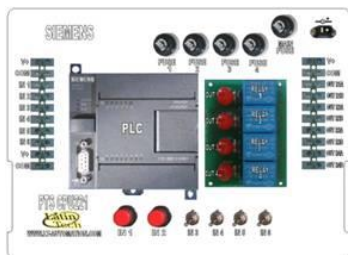## Automation Direct

PTS CLICK

A fast growing brand because of the innovative features in programming and the excellent cost. A mini PLC trainer with only digital inputs and outputs.

PTS CLICK-A

A new version of the brand with digital and analog inputs and outputs. A perfect balance between cost and features.

Siemens

PTS S7-1200S

This famous German brand is a proven technology which is applied in several industrial processes all over the world. This trainer is based on the latest Siemens´ design.

Micro PTS-E10

Not available for Educational Institutions

Welcome to our latest development for ladder logic programming and training on PLCs. A simplified version our model PTS E10. Only for really tight budgets in need for education.

The World's Smallest PLC trainer

Characteristics

- Low cost, small size PLC trainer.
- Real PLC industrial applications.
- Ideal for quick prototyping and and experiments.
- Excellent tool that you can carry with you wherever you go.
- Fully equipped with cable, power supply and fuses.

Technical specifications

- PLC 6 inputs / 4 outputs DC.
- Two pushbuttons and 4 toggle switches.
- 216 Programming steps.
- Main fuse and external fuse available.
- Connectors for external wiring.
- Wall adapter power supply 110 VAC input.
- Four Timers (0.1 to 999.9 sec)
- Four counters (1 to 9999)
- Eight internal relays
- Sequencer of 32 steps.
- Programming and simulation software for ladder logic.
- Online monitoring and control.
- RS232/RS485 port (jumper selectable)
- Shipping Weight: 4 lbs.

Software Features

- Our awarded programming software TRiLOGI.
- Simulator Tools.
- Includes other PLC models.
- ON - LINE monitoring.
- No specific computer requirements.

Either you are an experienced PLC programmer or a novice you will enjoy to see your applications working in just minutes.

First simulate your project on a computer, then wire the devices to the external connectors and perform a real test.

Ideal for:

- Small projects
- Industrial emergencies
- Robotics
- Replacing timers
- Replacing counters
- Replacing ladder logic
- Y- Delta Motor starting.

Our PLC Training Station has following advantages :

- Small size and weight.
- Extremely low cost.
- Portable.
- Easy to use.
- Industrial.
- Educational.

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PTS-E10

Used by several Educational Institutions all over the world.

A powerful PLC training fully wired and ready for you to make real application in no time.
This trainer is recommended for educational institutions as the ideal tool to train beginners on Basic levels of PLCs or to develop small applications.

Best PLC trainer in the market!

Either you are an experienced PLC programmer or a novice you will enjoy to see your applications working in just minutes.

First simulate your project on a computer, then wire the devices to the external connectors and perform a real test.

Hardware Specifications

- PLC 6 inputs / 4 outputs DC.
- Two pushbuttons and 4 toggle switches.
- Four jumbo indicating lights
- Four 10 Amp relay outputs with fuses.
- 216 Programming steps.
- Main fuse and external fuse available.
- Connectors for external wiring.
- Wall adapter power supply 110 VAC input.
- Four Timers (0.1 to 999.9 sec)
- Four counters (1 to 9999)
- Eight internal relays
- Sequencer of 32 steps.
- Programming and simulation software for ladder logic.
- Online monitoring and control.
- RS232/RS485 port (jumper selectable)
- Carrying case
- ShippingWeight: 6 lbs.

Characteristics

- Low cost, small size PLC trainer.
- Real PLC industrial applications.
- Ideal for quick prototyping and experiments.
- Excellent tool that you can carry with you wherever you go.
- Fully equipped with cable, power supply and fuses.

Software Features

- Our awarded programming software TRiLOGI.
- Simulator Tools.
- Includes other bigger PLC models.
- ON - LINE monitoring.
- No specific computer requirements.

Ideal for:

- Small projects.
- Industrial emergencies.
- Robotics.
- Replacing timers.
- Replacing counters.
- Replacing ladder logic.

PTS-NANO

A simplified and affordable PLC trainer version of our bigger models.

Imagine a PLC with Ethernet/Internet connection that can be controlled using any browser (even from an Iphone) without writing a line a Javascript codes.
The software tool to make your graphic HMI trough internet is free.

For the first time a powerful PLC trainer that fits in the palm of your hand.

Ideal for those with some basic background on PLC.

This is the coolest PLC trainer with features that you only find in very expensive PLCs.

Technical specifications

- PLC 4 inputs / 4 outputs DC
- 2 pushbuttons and 2 toggle switches
- 2 encoder inputs
- 2 PWM outputs 8 amps
- 2 Relay outputs (5 amps)
- 2 Analog I/O (12-bit, 0-5V)
- 10 Kohm pot with knob
- 1 channel stepper motor controller
- 32 bits CPU processing
- 1 Ethernet Port (Modbus/TCP client and server)
- 1 RS485 (Modbus ASCII and RTU)
- Main fuse and external fuse available
- Side connector for external wiring
- Wall adapter power supply 110 VAC input
- 64timers and 64 counters
- 512 internal relays
- 8 Sequencers of 32 steps each.
- 16 PID loops
- 8kbytes for Program memory
- 2kbytes of Data memory
- A to Z for variables, A$ to A$ for string data.
- Programming and simulation software for ladder Logic+Basic
- Online monitoring and control
- Email, Remote programming via the Internet.
- Complete with 110 AC wall adapter power supply, usb to serial converter and optional carrying case
- Shipping Weight: 7 lbs.

Ideal for

Industrial automation
Building automation
Domotics
Remote control
Remote monitoring surveillance
Data acquisition
Control by I- phone or IPAD

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PTS-F888

Our PLC Trainer PTS F88 is designed to offer all what you really need to perform high level training on PLCs. It includes some many technical features on the same low cost equipment that would be very expensive to try to do it with any other popular PLC brand.

This one of the latest big developments in PLC training. Former PTS-T100.

The PTS F88 incorporates a built-in Ethernet port that supports the industry standard MODBUS/TCP protocol, are capable of driving stepper motors DIRECTLY, have a built-in battery-backed Real Time Clock, and support 3 serial ports and 3 HSCs.

This CPU run five times Faster, they have more program and data memory and plenty of other improvements over the PTS T100 More importantly, these plc workstation are still programmed by the industry-proven Ladder+BASIC, i-TRiLOGI.

Despite its small size and low weight the PTS F888 is a powerful PLC work station that can be used in several fields:

- Robotics.
- Domotics and Building Automation.
- Urban Agriculture.
- Home Security.
- Power Quality Control and Energy Management.
- Mobile Applications.
- OEM Machinery Design and Improvement.
- Thesis projects for any technical or doctoral study.
- Inventions.
- Machine Automation.
- HVAC control.

Technical specifications

- 2 pushbuttons and 4 toggle switches
- 2 encoder inputs
- 4 PWM outputs (4 amps each)
- 4 Relay outputs (5 amps) with fuse.
- 3 Pulse/dir channels for Stepper control.
- 8 Analog I/O (12-bit, 0-5V)
- 2 Analog I/O (12-bit, 0-5 or 0-10 Selectable)
- 10 Kohm pot with knob
- 1 channel stepper motor controller
- 32 bits CPU processing
- RS 232 Port, RS485 (Modbus ASCII and RTU)and Ethernet Port (Modbus/TCP client and server)
- Main fuse and external fuse available
- Side connectors for external wiring
- Wall adapter power supply 110 VAC input
- 64 timers and 64 counters
- 512 internal relays
- 8 Sequencers of 32 steps each.
- 16 PID loops
- 8k for Program memory
- 2k of Data memory
- 11K RAM for Integer and String storage.
- A to Z for variables, A$ to A$ for string data.
- Programming and simulation software for Ladder logic+Basic
- Online monitoring and control.
- LCD Display with 2 lines and 16 characters.
- Email, Remote programming via the Internet.
- Complete with 110 AC wall adapter power supply and optional carrying case
- Shipping Weight: 7 lbs.

PTS-F1616

Our PLC Trainer PTS F1616 is designed to offer all what you really need to perform high level training on PLCs. It includes some many technical features on the same low cost equipment that would be very expensive to try to do it with any other popular PLC brand.

This one of the latest big developments in PLC training.

The PTS F1616 incorporates a built-in Ethernet port that supports the industry standard MODBUS/TCP protocol, are capable of driving stepper motors DIRECTLY, have a built-in battery-backed Real Time Clock, and support 3 serial ports and 3 HSCs.

Despite its small size and low weight the PTS F1616 is a powerful PLC work station that can be used in several fields:

- Robotics.
- Domotics and Building Automation.
- Urban Agriculture.
- Home Security.
- Power Quality Control and Energy Management.
- Mobile Applications.
- OEM Machinery Design and Improvement.
- Thesis projects for any technical or doctoral study.
- Inventions.
- Machine Automation.
- HVAC control.

Technical specifications

- 2 pushbuttons and 4 toggle switches
- 3 High speed encoder inputs
- 4 PWM outputs (4 amps each)
- 10 Relay outputs (5 amps) with fuse.
- 2 Pulse/dir channels for Stepper control or 1 stepper motor driver.
- 8 Analog Inputs (12-bit, 0-10V)
- 4 Analog Outputs (12-bit, 0-10 V.
- 10 Kohm pot with knob.
- 32 bits CPU processing
- RS 232 Port, 2x RS485 (Modbus ASCII and RTU)and Ethernet Port (Modbus/TCP client and server). One Infrared port.
- Main fuse and external fuse available
- Side connectors for external wiring
- Wall adapter power supply 110 VAC input
- 64 timers and 64 counters
- 512 internal relays
- 8 Sequencers of 32 steps each.
- 16 PID loops
- 8k for Program memory
- 2k of Data memory
- 11K RAM for Integer and String storage.
- A to Z for variables, A$ to A$ for string data.
- Programming and simulation software for Ladder logic+Basic
- Online monitoring and control.
- LCD Display with 2 lines and 16 characters.
- Email, Remote programming via the Internet.
- Complete with 110 AC wall adapter power supply and optional carrying case
- Shipping Weight: 8 lbs.

PTS-CLICK

This trainer have a lot features that makes them a good choice to learn and practice about PLCs.

Hardware

- External connectors.
- 4 Relay outputs (fuse protected).
- Power supply with main fuse.
- 2 push buttons.
- 4 toggle switches.
- Optional carrying case.
- 4 jumbo lights.
- External Relays.
- Two serial comm ports.
- 24VDC power supply.
- 8k steps program memory.
- 6.4k words data memory.
- Relay Ladder Logic programming.
- built-in RS-232C programming port and additional RS-232C ASCII or Modbus RTU communications port (configurable up to 115.2K baud).
- Discrete Inputs: 8 DC inputs, 24VDC sink/source, 2 isolated commons.
- Discrete Outputs: 6 DC outputs, 5-27 VDC sinking, 0.1A/point, 2 isolated commons.
- Removable I/O terminal block.
- Weight: 2 lbs.

Software

- Software included with Non limited programming lines.
- Programming cable.
- CD with PLC's technical info.
- You can use our Book of Fundamentals of PLC programming for lessons and Project.
- File with information about software installation and use.

Technical specifications

- CLICK PLC CPU, 8 DC in / 6-point sinking DC out.
- 24VDC power supply.
- 8k steps program memory.
- 6.4k words data memory.
- Relay Ladder Logic programming.
- built-in RS-232C programming port and additional RS-232C ASCII or Modbus RTU communications port (configurable up to 115.2K baud).
- Discrete Inputs: 8 DC inputs, 24VDC sink/source, 2 isolated commons.
- Discrete Outputs: 6 DC outputs, 5-27 VDC sinking, 0.1A/point, 2 isolated commons.
- Removable I/O terminal block.

PTS-CLICK A

This trainer have a lot features that makes them a good choice to learn and practice about PLCs.

Hardware

- External connectors
- 4 Relay outputs (fuse protected)
- Power supply with main fuse
- 2 push buttons
- 2 toggle switches
- 2Analog Voltage Inputs
- 2 Analog Current Inputs
- Optional carrying case

Software

- Free software Non limited programming lines.
- Programming cable.
- CD with PLC's technical info.
- You can use our Book of Fundamentals of PLC programming for lessons and Project.
- File with information about software installation and use.

Technical specifications

- CLICK PLC CPU, 4 DC in / 4 sinking DC out.
- 2 channels analog in / 2 channels analog out (current / voltage selectable).
- Requires a 24VDC power supply.
- 8k steps program memory, 6.4k words data memory, Relay Ladder Logic programming.
- Built-in RS-232C programming port, additional RS-232C ASCII or Modbus RTU communications port (configurable up to 115.2 kbaud).
- 3-wire RS-485 networking port for ASCII or Modbus RTU communications.
- Real Time Clock / Calendar and battery-backed memory.
- Discrete Inputs: 4 DC inputs, 24VDC sink/source, 1 common.
- Discrete Outputs: 4 DC outputs, 5-27 VDC sinking, 0.1A/point, 1 common.
- Analog Inputs: 2 channels 4-20 mA or 0-5 VDC. Analog Outputs: 2 channels 4-20 mA or 0-5 VDC.
- Weight: 2 lbs.

PTS-10BXB

This PLC trainer is one of the most sold items because of its low cost, small size and powerful features.

This equipment allows you to make practices of programming by downloading your creation to the PLC and then using the pushbuttons and switches for quick simulation.
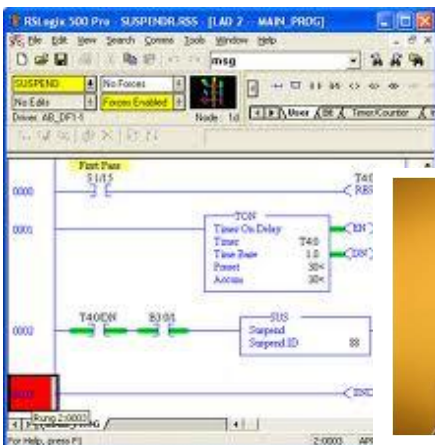
This is one of the most respected brands in the automation market. Its PLCs are applied in thousands of systems around the world. Allen Bradley and Rockwell automation are one of the biggest automation companies in the whole world.

This PLC trainer is one of the most sold items because of its low cost, small size and powerful features.

Hardware

- 2 pushbuttons and 4 toggle switches
- 4 Relay outputs (5 amps) with fuse.
- 32 bits CPU processing
- RS 232 Port, with DF1 Protocol
- Main fuse and external fuse available
- Side connectors for external wiring
- Wall adapter power supply 110 VAC input
- 40 timers and 32 counters
- internal relays
- 773 instruction word for Program memory
- 437 words of Data memory
- Online monitoring and control.
- Complete with 110 AC wall adapter power supply, programming cable and optional carrying case
- Shipping Weight: 7 lbs.

Software

- Free software 500 programming lines.
- CD with PLC's technical info and files about installing the software and the equipment, using the software, writing programs and how to download program to the PLC .
- We recommend you to get our Book of Fundamentals of PLC programming for lessons and Projects if you want to know more about PLCs .
- File with information about software installation and use.

Characteristics

- Low cost, small size PLC trainer.
- Real PLC industrial applications.
- Ideal for quick prototyping and experiments.
- Excellent tool that you can carry with you wherever you go.
- For people in need of learning or practicing automation.

PTS S7-1200

Our PTS S7-1200 is based on the latest PLC technology from Siemens. This PLC trainer is an excellent tool to learn about PLC programming and also the new software programming tool the company has developed. The unit has been designed to be portable yet practical to develop prototypes and to learn about this technology.

Siemens is a worldwide known company that has proven to be one of the biggest automation manufacturers. Its technology is used by thousands of companies all over the world.

This PLC trainer is an excellent tool to learn about PLC programming and also the new software programming tool the company has developed.

Hardware

- External connectors.
- 4 Relay outputs (fuse protected).
- Power supply with main fuse.
- 2 push buttons.
- 4 toggle switches.
- 2Analog Voltage Inputs.
- Optional carrying case.
- 4 jumbo lights.
- External Relays.
- Ethernet port.

Software

- New and complete software Non limited programming lines.
- Programming cable.
- CD with PLC's technical info.
- You can use our Book of Fundamentals of PLC programming for lessons and Project.
- File with information about software installation and use.

PLC FEATURES

- Integrated 24 V encoder/load current supply: For direct connection of sensors and encoders. With 300 mA output current also for use as load power supply.
- 2 integrated analog inputs 0 to 10 V.
- 2 pulse outputs (PTO) with a frequency of up to 100 kHz.
- Pulse-width modulated outputs (PWM) with a frequency of up to 100 kHz.
- Integrated Ethernet interface (TCP/IP native, ISO-on-TCP)
- Expansion by additional communication interfaces, e.g. RS485 or RS232
- Expansion by analog or digital signals directly on the CPU via signal board (with retention of CPU mounting dimensions).
- Optional memory expansion (SIMATIC Memory Card).
- PID controller with auto-tuning functionality.
- Integral real-time clock.
- Interrupt inputs: For extremely fast response to rising or falling edges of process signals.
- Removable terminals on all modules.