



Product Overview

The PLC + HMI Training Kit is a modular industrial automation learning platform designed for educational and technical training applications. The system provides hands-on experience in PLC programming, HMI operation, industrial I/O interfacing, Ethernet communication, and automation control concepts.

The kit is suitable for engineering institutions, technical laboratories, vocational training centers, and industrial skill development programs.

System Configuration

PLC System

- Modular PLC platform designed for educational use
- Ethernet connectivity for programming and communication
- Supports:
 - Ladder Logic Programming
 - Function Block Programming (FBD)
- Expandable architecture for future I/O additions

Input / Output Configuration

Digital Inputs

- Minimum: 8 to 16 Digital Inputs

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Digital Outputs

- Minimum: 8 to 16 Digital Outputs

Analog I/O Expansion

Preferred support for:

- 0–10V Analog Signals
- 4–20mA Analog Signals

Human Machine Interface (HMI)

HMI Specifications

- Minimum 7-inch Touch Panel Display
- Ethernet communication support
- User-friendly graphical interface

Included Accessories

- Project transfer cable
- Mounting hardware

Power Supply & Protection

Power System

- 24VDC regulated power supply unit

Safety & Protection Features

- Electrical protection integrated
- Labeled terminals for easy identification
- Emergency Stop (E-Stop) provision on training panel
- Fusing protection included

Software Package

Programming Software

- PLC programming environment included
- Educational software license provided

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Monitoring & Simulation

- Simulation capability preferred
- Online monitoring functionality supported

Training Panel Features

- Industrial-grade panel assembly
- Clearly labeled terminals and wiring points
- Easy access for experimentation and troubleshooting
- Designed for repeated educational use

Applications

- PLC Programming Training
- Industrial Automation Education
- HMI Development Practice
- I/O Interfacing Experiments
- Ethernet Communication Training
- Automation Troubleshooting Exercises

Warranty

- Minimum 1-Year Warranty

Technical Summary Table

Parameter	Specification
PLC Type	Modular Educational PLC Platform
Communication	Ethernet Connectivity
Programming Languages	Ladder Logic, Function Block Diagram
Digital Inputs	8-16 DI
Digital Outputs	8-16 DO
Analog I/O	0-10V / 4-20mA Expansion Preferred
HMI Size	7" Touch Panel or Larger
HMI Communication	Ethernet
Power Supply	24VDC
Safety Features	E-Stop, Fusing, Protection
Software	Educational License Included
Monitoring	Simulation / Online Monitoring
Warranty	Minimum 1 Year

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