



Programmable Logic Controller Training System (SMT-1300)

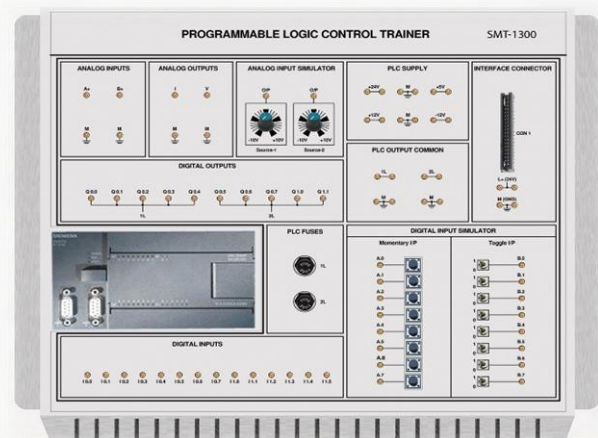
In today's rapidly advancing world of automation, programmable logic controllers (PLCs) have become an essential component in industrial and commercial applications. With the increasing demand for skilled professionals in PLC programming and operation, comprehensive training solutions are necessary. To address this need, we offer specialized PLC training packages designed to provide hands-on experience with real-world automation systems. The standard package includes a PLC module, a power supply, programming and operating software, and a PC/PPI communication cable, ensuring a complete learning experience.

Our PLC trainers are cost-effective and ideal for students, technical schools, colleges, and companies looking to upskill their workforce in PLC-based control systems. These trainers provide a practical approach to understanding automation, enabling users to develop programming expertise and troubleshooting skills. Additionally, the modular training system consists of six interchangeable modules, allowing learners to explore various aspects of PLC operations and applications. With just a PC, users can access a fully functional training environment, making this system a convenient and efficient tool for mastering PLC technology.

TECHNICAL SPECIFICATIONS

MAIN UNIT (SMT-1300):

- **PLC:** Siemens CPU 224XP/Fatek CPU FBs24MAT
- **Digital Inputs:** 14
- **Digital Outputs:** 10
- **Analog Inputs:** 2 Voltage Type with 11-bit ADC
- **Analog Outputs:** 1 Voltage type and Current type Simultaneous Output
- **Programming Language:** Ladder, STL & FBD
- **Analog Voltage Source:** 2 sources +, -10V
- **Interface Connector:** 40 Pin IDC
- **INPUT Section:** 8 toggle switches, 8 Momentary Switches
- **Accessories:** 4mm safety patch cords, Power Cord, User Manual, Software CD, PC Programming Cable

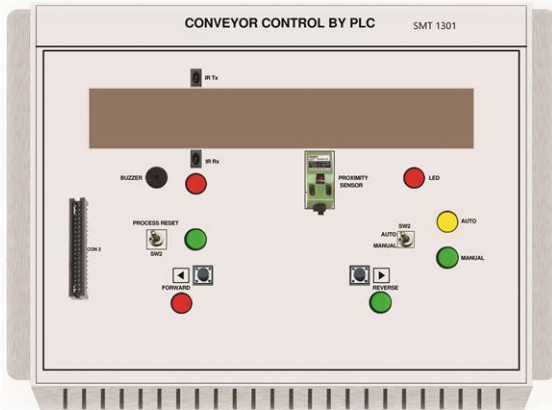


OPTIONAL MODULES:

- Conveyer Control By PLC (SMT-1301)
- Elevator Control By PLC (SMT-1302)
- Motor Control By PLC (SMT-1303)
- Temperature Control By PLC (SMT-1304)
- Water Level Control By PLC (SMT-1305)
- Traffic Signal Control By PLC (SMT-1306)

EXPERIMENT INCLUDED

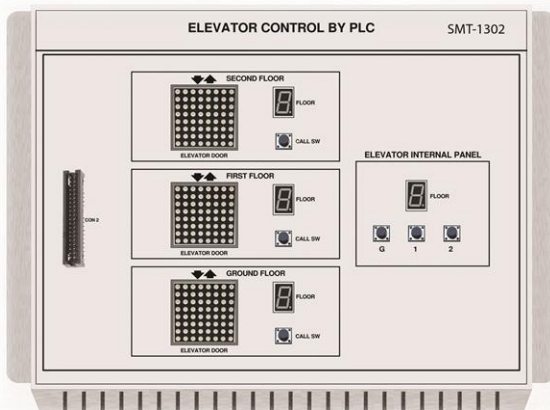
Conveyer Control By PLC (SMT-1301)



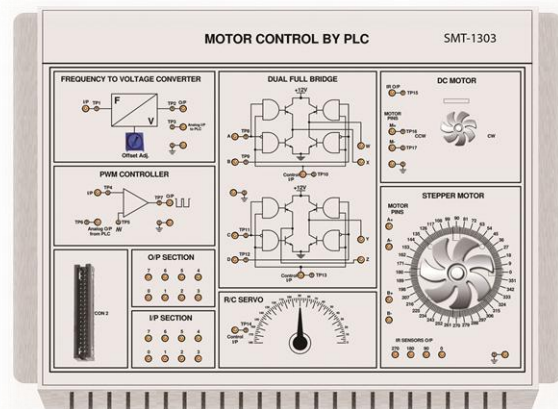
- Conveyor Belt: 205mm
- Motor: DC Gear Motor
- Indicator: LED, Buzzer
- Control: Auto / Manual, Forward / Reverse
- Digital Inputs: IR, Proximity, Auto/Manual & ON/OFF
- Digital Outputs: Forward, Reverse, LED, Buzzer
- Interface Connector: 40-pin IDC
- Compatible PLC Trainer: Siemens 224XP & Fatek FBs24MAT
- Accessories: User Manual, IDC Cable, Sample Program

- Elevator: 3-Floor
- Floor Indicator: 7-Segment LED Display
- Call Switch: Momentary Tact Type
- Call Indicator: LEDs
- Elevator Direction Indicator: LEDs
- Elevator Door Indicator: 8X8 Dual Colour Dot Matrix
- Digital Inputs: 3XCall Switches, 3XInternal Panel Floor
- Switch
- Digital Outputs: 2XFloor Indicator, 3XDoor Indicator, UP, DOWN, 3XCall Switch Indicator
- Interface Connector: 40-pin IDC
- Compatible PLC Trainer: Siemens 224XP & Fatek
- FBs24MAT
- Accessories: User Manual, IDC Cable, Sample Program

Elevator Control By PLC (SMT-1302)



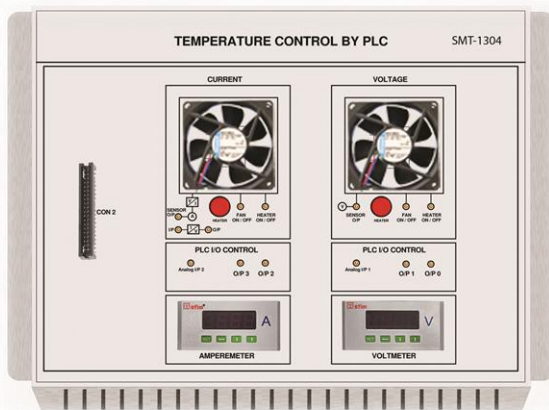
Motor Control By PLC (SMT-1303)



- Motor: DC Motor, Stepper Motor & R/C Servo
- Encoder: IR Opto-interrupter, 4XDigital Hall
- Driver: Monolithic Dual H-Bridge
- Signal Conditioning: PWM Generator, F/V Converter

- Interface Connector: 40-pin IDC, 2mm Input/output
- Compatible PLC Trainer: Siemens 224XP & Fatek FBs24MAT
- Accessories: User Manual, IDC Cable, Sample Program, 2mm Patch Cords

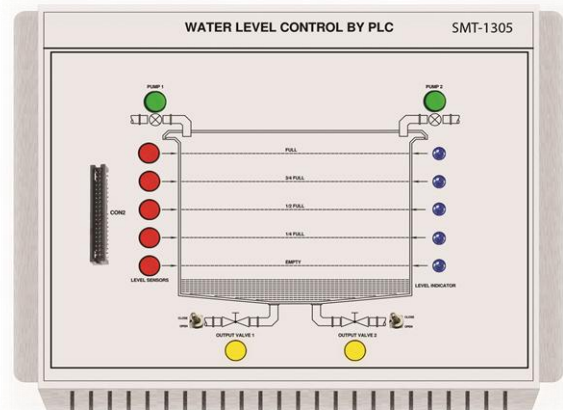
Temperature Control By PLC (SMT-1304)



- Heater: 4X 47R 5W Resistor Type
- Fan: 12 VDC
- 3 ½-Digit Digital Voltmeter: LCD Type
- 3 ½-Digit Digital Ammeter: LCD Type
- Analog Input Signals: 1X Voltage, 1X Current Type
- Output Signals: 2X Fan ON/OFF, 2X Heater ON/OFF
- Temperature Sensor: 2X IC Type
- Interface Connector: 40-pin IDC
- Compatible PLC Trainer: Siemens 224XP & Fatek FBs24MAT
- Accessories: User Manual, IDC Cable, Sample Program, 2mm Patch Cords

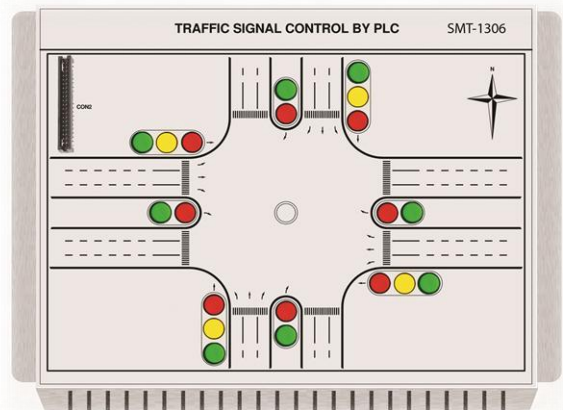
Water Level Control By PLC (SMT-1305)

- Interface Connector: 40-pin IDC
- Compatible PLC Trainer: Siemens 224XP & Fatek FBs24MAT
- Accessories: User Manual, IDC Cable, Sample Program



- Input Signals: 5X Level, 2X Output Valves
- Output Signals: 2X Pump Drives
- Analog Output: To Drive Level Indicators

Traffic Signal Control By PLC (SMT-1306)



- Round About: Red, Yellow & Green Lamps
- Right Turn: Red, Green Lamps
- Interface Connector: 40-pin IDC
- Compatible PLC Trainer: Siemens 224XP & Fatek FBs24MAT
- Accessories: User Manual, IDC Cable, Sample Program