Advanced PLC Trainer

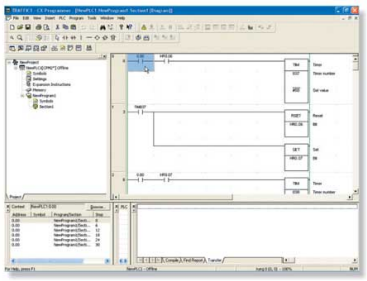
PT 970101AL

Features

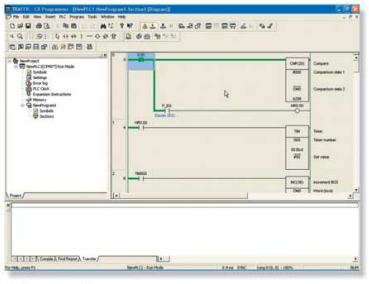
- The trainer is designed for easy teaching and practicing about the automation system and to train students so they have high skill in the automation system for industries.
- The system consists of modular blocks to enable the student in learning PLC system in modular way. The panel type constructions are easy to handle by student when conducting the experiment.
- All inputs and outputs on each panel are equipped with robust 4-mm sockets for easy connection.
- Model (simulation) plant are included for plant implementation, so the training goals can be achieved straightforward and simple.
- Digital outputs expansion module is included for extended digital outputs point. Analog inputs/outputs expansion module is included for interfacing analog to digital form or digital to analog form.
- Complete with comprehensive experiment manual book to guide student step by step in conducting experiments.

Covered Topics

- DE03001E Introduction to Programmable Logic Controller
- DE03002E Basic Programming
- DE03003E Outputs Instructions
- DE03004E Logic Instructions
- DE03005E Timer Instructions
- DE03006E Counter Instructions
- DE03007E Simulation to Run a Motor with a Contactor
- DE03008E Application of PLC in Traffic Light Control
- DE03009E Digital Outputs Expansion Module 8ET1
- DE03010E Analog Inputs/Outputs Expansion Module MAD01



Ladder editor



Online monitoring

Specification

- **Power Supply [PTE-033-01]**
  - Output voltage : DC 24V
  - Output current : 2.1A
  - Input voltage : 220V / 50Hz

- **Main CPU [PTE-030-01]**
  - CPU : OMRON CP1
  - Program memory : 10K Steps
  - Data memory : read/write 32K Words
  - Interrupt inputs : 6
  - High speed counter
  - DC inputs : 36 inputs
  - DC outputs : 24 outputs
  - Analog control : 1 control (setting range: 0-255)
  - PID control instruction : yes (with analog I/O)
  - Built-in peripheral port : support host link, peripheral bus, no-protocol or Programming console connection
  - Built in RS232 port : support host link, peripheral bus, no-protocol 1:1 slave unit link, 1:1 master unit link, or 1:1 NT link connections
  - Max digital I/O capacity with additional I/O expansion units : 120 points
  - Max analog I/O with additional expansion units : 3 analog I/O unit (6 analog inputs 3 analog outputs)

- **Digital Expansion 8ET1 [PTE-030-02]**
  - Digital output : 8 outputs

- **Analog Expansion MAD01 [PTE-030-03]**
  - Analog input : 2 inputs (voltage or current input, selectable)
  - Analog output : 1 output (voltage or current output, selectable)

- **Relays [PTE-033-05]**
  - DC inputs : 8 inputs
  - Relay outputs : 8 relay SPDT 220V, 0.5A

Continue >>

For further detail information, please contact us at
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Training Panel System

>> *Specification Continued*

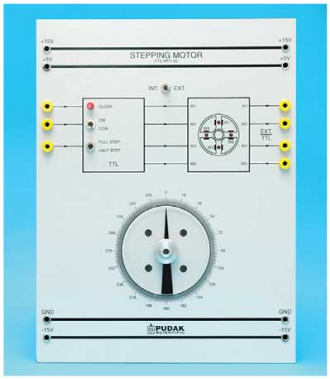
- DC Input Simulator [PTE-033-06]
  - 8 switches
  - Output voltage switch on : 24V DC
- Logical LED Display [PTE-033-07]
  - 16 LED as indicator
  - Inputs voltage : 24VDC
- Traffic Light Model [PTE-MP1-01]
  Traffic light model to simulate junction of main road and a branch/minor road traffic light system inputs voltage: 24VDC
- CX Programmer Software for PLC Programming [GSC 700]
- RS-232 Cable [GSE 230 02]
- Required Computer (Not included), with:
  - Operating system minimum : Windows 98
  - USB port minimum : 1 pc
  - CD ROM

PT 970101AL Advanced PLC Trainer consists of

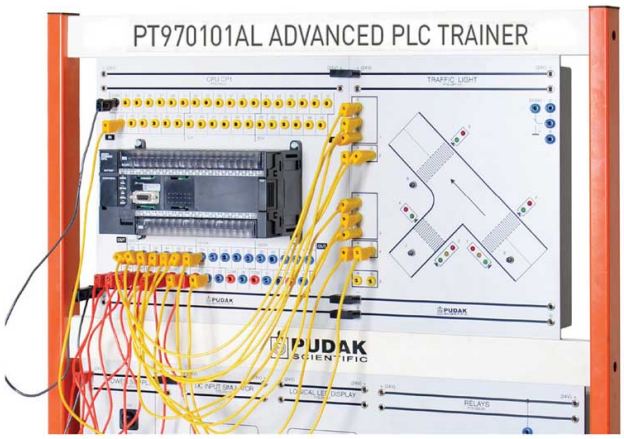
Cat. No.	Description	Qty.
PTE-033-01	Power Supply	1 pc
PTE-030-01	CPU CP1 Omron	1 pc
PTE-030-02	Digital Expansion 8ET1	1 pc
PTE-030-03	Analog Expansion MAD01	1 pc
PTE-033-05	Relays	1 pc
PTE-033-06	DC Input Simulator	1 pc
PTE-033-07	Logical LED Display	1 pc
PTE-MP1-01	Traffic Light Model	1 pc
GSC 700	CD CX Programmer Software	1 pc
GSE 230 02	RS232 Cable	1 pc
FLS 20.02/097	Connecting Cross	40 pcs
KAL 99/40-050	Connecting Lead 50 cm, Yellow	40 pcs
KAL 99/10-050	Connecting Lead 50 cm, Black	10 pcs
KAL 99/20-050	Connecting Lead, 50 cm, Red	10 pcs
D03S-02E	Experiment Manual Book	1 pc
D03T-01E	CP1 Programming Manual Book	1 pc
GSN 240	TPS Frame 600 mm	1 set
	USB Cable	1 pc

Optional Model (Simulation) Plant

1. PTE-MP1-02 Stepper Motor
2. PTE-MP1-03 Washing Machine
3. PTE-MP1-04 Parking System
4. PTE-MP1-05 Tank System



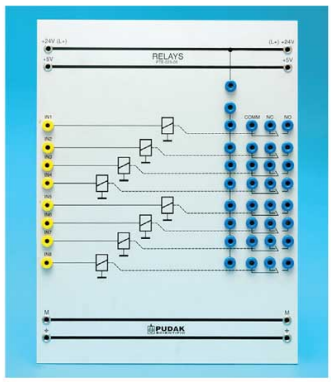
Stepper Motor Model
PTE-MP1-02



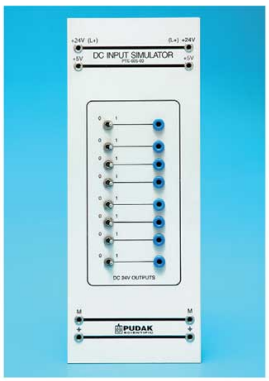
CPU CP1 Omron [PTE-030-01] with Model (Simulation) Plant

Digital Expansion 8ET1
PTE 030-02

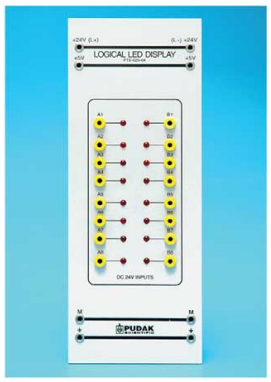
Analog Expansion MAD01
PTE-030-03



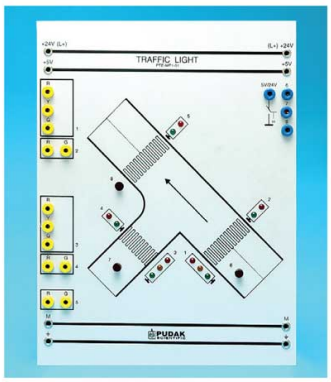
Relays
PTE 033-05



DC Input Simulator
PTE-033-06



Logical LED Display
PTE-033-07



Traffic Light Model
PTE-MP1-01

Specifications and illustrations are subject to change without prior notice

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