

Product Name :
Programmable Logic Controller Application Modules

Product Code :
PLC77-P1,P5,P6,P7



Description :

Programmable Logic Controller Application Modules -

The trainer should be designed to work with most equipment that can be controlled by PLCS. It should specifically work with the PLC trainers provided in this package. It should have the following features:

- The system should consist of a base station which provides a platform for the modules. The base station includes a number of switches, power supply and other control and signaling devices that can be used in conjunction with the modules for control, signaling or modification purposes.
- The modules should feature graphic representations of the device that they are simulating and use LED's to illustrate the actions that are taking place.
- The modules should range from basic to intermediate levels in complexity.
- These modules should provide practical programming applications for the student

to work on and apply his new knowledge about PLC operations.

- These modular application modules should allow immediate and easy use of PLC programming techniques and also the student may perform debugging procedures after watching the program run and correction errors.
- This unit should work with PLC Trainer above.

Specifications:

1. **Base Station**

The base station should have the following specifications:

- The base station should provide a platform and general facilities which the modules require for operation.
- It should contain a number of relays, switches, signaling devices, lights and buzzers which can connect to the application modules via 2mm stacking interconnect cables that are also included.
- These switches and signaling devices should allow the application simulation modules to operate and also provide some variables to the operation so that different characteristics could be explored.

2. **Modules:**

a. Traffic Light Module

Objective: After completing this experiment, the students are expected to understand of using the TIM instruction in the Traffic Light operation programming application

**b. Vehicle
Parking Module**

Objective: After completing this experiment, the students are expected to understand of using DIFU, DEC, CMP, and MOVE instructions in the Vehicle Parking operation programming application.

**c. Elevator
Lift Module**

Objective: After completing this experiment, the students are expected to understand of using SET, KEEP, SBS, TIM, SBN and RSET instructions in the Elevator Lift operation programming application.

**d. Laundry
Module**

Objective: After completing this experiment, the students are expected to understand of using KEEP, SET, TIM, DIFU, CNT and RSET instructions in the Laundry operation programming application.

**e. Bottling
Plant Module**

Objective: Upon the completion of this experiment, the students will be guided to understand of using SET, TIM, and RSET instructions in the Bottling Plant operation programming application

**f. Product
Line Inspection Module**

Objective: After completing this experiment, the students are expected to understand of using SET, TIM, and RSET instructions in Product Line Inspection operation programming application

**g. Packing
Module**

Objective: After completing this experiment, the students are expected to understand of using CNT instruction in the Packing system Operation programming application.

h. Tank Level and Pump Control Module

Objective: After completing this experiment, the students are expected to understand of using DIFU and TIM instruction in the Tank Level and Pump Control Operation programming application

i. Alarm System Module

Objective: After completing this experiment, the students are expected to understand of using TIM and KEEP instruction in the Alarm System Operation programming application.

j. Safety Door Module

Objective: After completing this experiment, the students are expected to understand of making the simple ladder diagram for safety door application

k. Fan Control Device Module

Objective: After completing this experiment, the students are expected to understand of using the SBS, SBN and RSET in programming application.

l. Seven Segment Display Module

Objective: After completing this experiment, the students are expected to understand of using SET, MOV, ANDW, JMP, DIV, SBS, RSET, JME, CMP, RET, SBN, ROR, and RET in Seven Segment Display Operation programming application

m. Tank Filling/Draining Control Module

Objective: After completing this experiment, the students are expected

to understand of using DIFU, DIFD, CNT and TIM in Filling, Draining Control Operation programming application

n.
Measuring The Life of a Cutting Knife/Punch Module

Objective: After completing this experiment, the students are expected to understand of using DIFU, CLC, ADD, CMP and MOV in Measuring the Knife of a Cutting Knife Operation programming application.

o. Two Door Auto Access Warehouse Module Model

Objective: After completing this experiment, the students are expected to understand using TIM and KEEP in two doors auto access warehouse operation programming application.

1.
To come complete with comprehensive courseware included with operation manuals and experiment manuals.

Experimental manuals to be provided during bidding process to ensure all above training exercises are covered.

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