

SAP E & C ADVANCED PLC PROGRAMMING TRAINER KIT
(PRODUCT CODE: PCST – 14A-I)



ADVANCED PLC PROGRAMMING TRAINER KIT

The **Advanced PLC Programming Trainer Kit (PCST – 14A-I)** gives an idea regarding the basics of Programmable Logic Controllers & its applications.

Technical Specification:-

No.	Item Name	Technical Specifications
01	PLC-	Allen Bradley Micrologix 1400/Siemens S7-1200/Mitsubishi FX3GE/Eqvt. Digital Inputs- 20 (For M.L. 1400), 16 (For Siemens S7 1200) Digital Outputs- 12 (For ML 1400)/ 10 (For Siemens S7 1200), Analogue input- 4 (For ML 1400)/ 2 (For Siemens S7 1200), Analogue output- 2 , Input /Output LED indication on front panel. PC interface facility, PC-PLC interfacing cable.
02	Ladder Programming Software-	For Allen Bradley ML 1400: RS LOGIX 500 MICRO STARTER/Eqvt. For Siemens S7-1200: Step 7 – Basic TIA, Version- 13/14 for Siemens/Eqvt. PLC Ladder Diagram programming on PC using Ladder Programming Software.
03	Communication-	Communication Port RS 232 / RS 485 / Ethernet
04	Power Supply-	24VDC, 3A/5A Power source. 4" X 2" X 2"
05	Electrical control panel with Input / Output simulating devices-	For simulation of digital inputs (switches - 20 Nos. & proximity sensors- 1 No., Optical Sensor – 1 No., miniature level switch- 1 No.(Optional) Front panel for display of digital input/output status: Lamps (32 Nos.), small DC electric motor (Optional) (1 No.), solenoid valve (1 No.) (Optional)
06	Voltage Source	Supply :- 230VAC , Range :- 0-10VDC with Varying Pot Provided on Front fascia

For More Details Visit Our Website At: www.sapengineers.com, www.sapengineers.co.in E-mail:- sales@sapengineers.com

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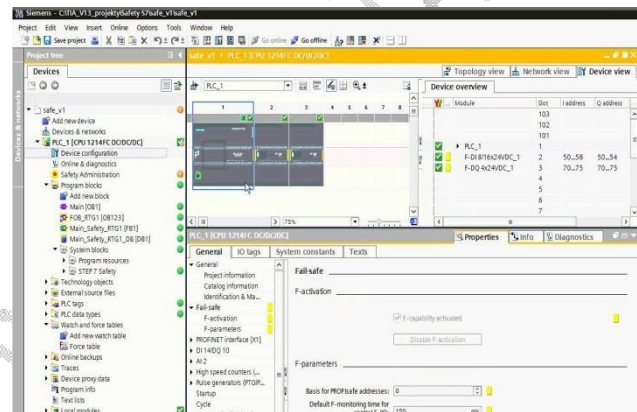
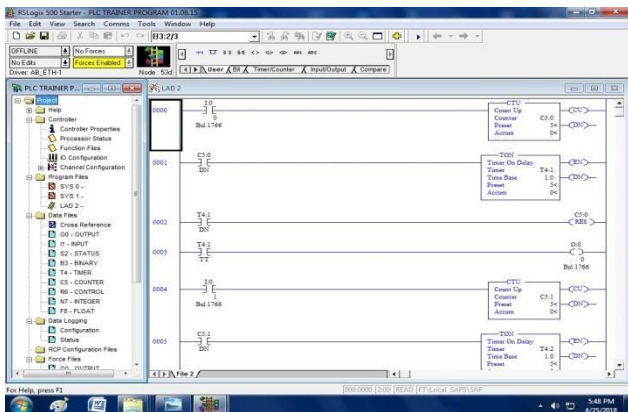


07	Voltmeter	Supply :- 230VAC , Input Range :-0-20VDC
08	PLC panel dimensions-	2Ft. X 1.5Ft. X 2Ft. with visible transparent front fascia
09	Addition of HMI (Optional)-	Size: 7" Color Display Make: Mitsubishi/Siemens/Schneider/Equivalent.
10	Output compatibility to Solenoid valves, Electric motors as actuating elements in respective assorted modules.	
11	SCADA SOFTWARE connectivity for PLC (Optional). Make: Siemens WinCC Basic/GE Proficy Ixif/Eqvt.	
12	High speed Frequency input for optical encoder module J260-58-AN-R-HVLD-360-V3-10-1-S-EG (Optional)	
13	High speed PWM output for Stepper motor module 42SH33-4AM/Servomotor module (Optional).	
14	Optional Addition of Modules/ Static Application Panels Lift Simulator, Water Level Control Module, Traffic Light Simulator, Bottle Filling Plant etc. to the PLC Trainer-PCST-14	

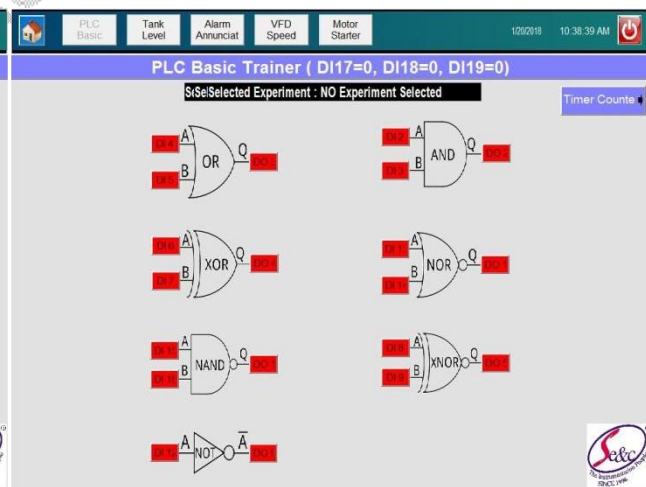
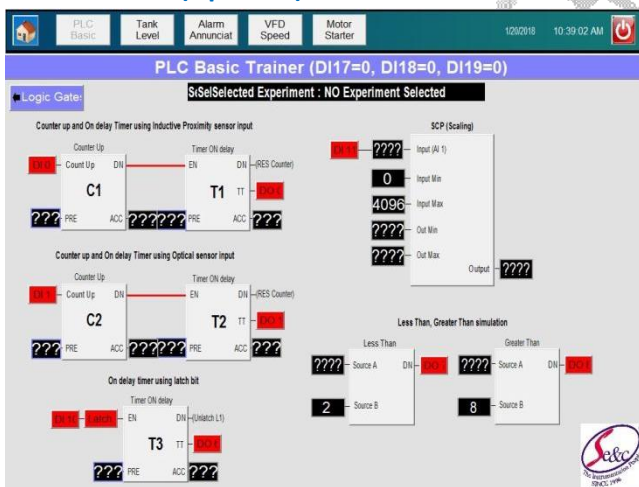
PLC Programming Software:

For Allen Bradley ML1400: RS Logix 500 MicroStarter

For Siemens S7-1200: TIA Portal Step7 Basic



SCADA Screen (Optional):



Range of experiments-

- ❖ Study Of PLC Ladder programming trainer kit.
- ❖ Study of Auxiliary Experiments.
- ❖ Study of Auxiliary/optional following PLC working modules:
 - Batch Process Reactor (PCST-14-I)
 - Rotary Bottle Filling Plant (PCST-14-II)
 - DC Motor Speed Control Module (PCST-14-III)
 - Star-Delta Starter (PCST-14-IV)

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- Discrete Application Trainer (PCST-14-V)
- Density Based Traffic Light Control (PCST-14-VI)
- ❖ Study of HMI **(Optional)**
- ❖ Study of SCADA operation and Interfacing (Optional)

Features: -

- ❖ Compact Ergonomic Design.
- ❖ User Friendly, Self Explanatory Systems.
- ❖ Robust Construction.
- ❖ Enhanced Electrical Safety Considerations.
- ❖ Self-explanatory instruction manuals, copy of S/W are provided.
- ❖ Inbuilt Safety Measures to avoid improper usage.
- ❖ Computer Interface (Optional).
- ❖ Caster wheel mounted movable frame

System Dimensions: 3Ft. (L) X 1.5Ft. (W) X 4Ft. (H)

Weight: Approx.35Kgs.

Services Required-

- ❖ Electric Supply of 1 ϕ 230 VAC motor.

Note-

All descriptive matter and illustrations are intended to give only a general idea of the equipment Detailed specifications may be altered at the company's discretion without any notice.

