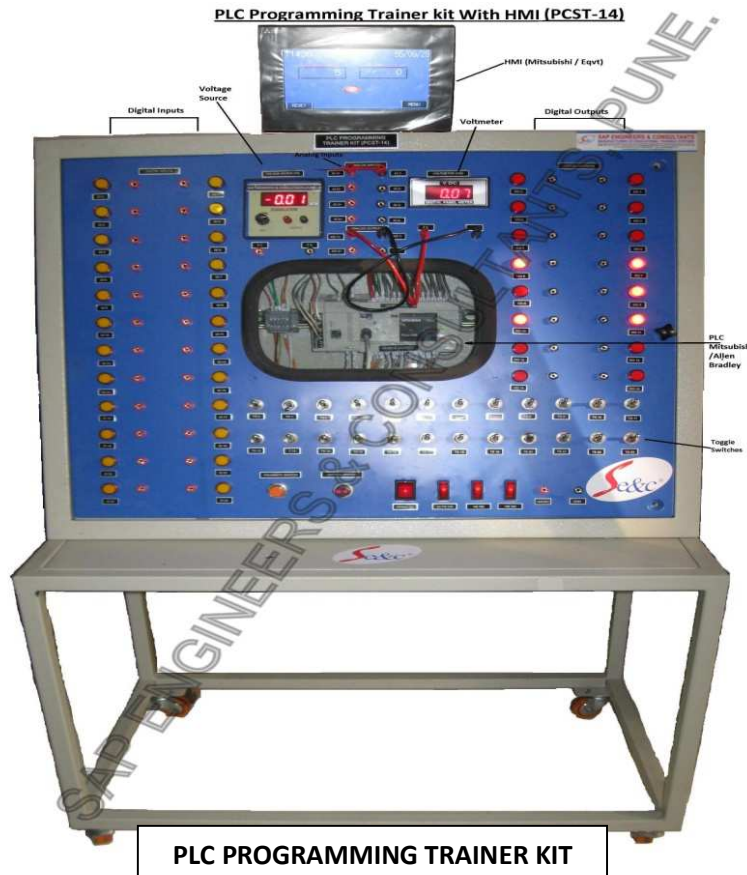


**SAP E & C PLC TRAINER ADVANCED
(PRODUCT CODE: PCST – 14)**



The PLC Programming Trainer Kit (PCST – 14) (with optional addition of HMI) gives an idea regarding the basics of Programmable Logic Controllers & its applications.

Technical Specification: -

No.	Item Name	Technical Specifications
1	PLC-	Siemens S7 / A-B Micrologix 1400- L32 BXB / Mitsubishi FX3GE / Equivalent Digital inputs- 20, Digital outputs- 12 Analog input- 4, Analog output-2 Input / Output LED indication on front panel. PC interface facility, PC-PLC interfacing cable.
2	Ladder Programming Software-	RS LOGIX 500 MICRO STARTER 9324RLM0100ENE for Allen Bradley PLC Ladder Diagram programming on PC using Ladder Programming Software. Step 7 – Basic TIA, Version- 13 for Siemens / Equivalent.
3	Communication-	Communication Port RS 232 / RS 485 / Ethernet
4	Power Supply-	24VDC, 3A Power source. 4" X 2" X 2"
5	Optical sensor-	1 No. for position.
6	Electrical control panel with Input / Output simulating devices-	For simulation of digital inputs (switches - 14 No.s & proximity sensors- 1 No., Optical Sensor – 1 No., miniature level switch- 1 No.(Optional)) Front panel for display of digital input/output status: Lamps (14 No.s), LED Indicators (10 No.s), small DC electric motor (Optional) (1 No.), solenoid valve (1 No.) (Optional)
7	PLC panel dimensions-	2Ft. X 1.5Ft. X 2Ft. with visible transparent front fascia
8	Addition of HMI (Optional)-	Size: 7", Make: Mitsubishi / Equivalent.
9	Output compatibility to Solenoid valves, Electric motors as actuating elements in respective assorted modules.	

SAP E & C PLC TRAINER ADVANCED
(PRODUCT CODE: PCST – 14)



10	Inductive/ proximity limit switches (digital inputs) MFPS_Q12 for Water level, position Sensing relay outputs (digital outputs) in lift simulator & bottle filling plant module (PCST-14-II). (Motor: ACM60, 10W, 230VAC.)
11	SCADA SOFTWARE connectivity for PLC (Optional).
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 (optional).
14	Level measurement (CPT) using PLC with water level control module. (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)
 - Discrete Application Trainer (PCST-14-V)
 - Density Based Traffic Light Control (PCST-14-VI)
- ❖ Study of HMI (**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).

System Dimensions: 1.5Ft. (L) X 1.5Ft. (W) X 1Ft. (H)

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.

Manufactured/Marketed By

SAP ENGINEERS & CONSULTANTS

Regd. Off. : Shop No. 26-27,'Srushti', Survey No.82, Near Guru Ganesh Nagar,
Ekavya College Road (D.P.Road), Kothrud, Pune - 411 038

Telephone : (020) 2538 4737

Mobile : 94220 88946, 95524 75082

Fax : (020) 2538 3544

Email : pravinsdeode@vsnl.net, sapengineerspune@gmail.com

Website : www.sapengineers.com / www.sapengineers.co.in

For More Details Visit Our Website At: www.sapengineers.com, E-mail:- pravinsdeode@vsnl.net
SAP Engineers & Consultants, Kothrud, Pune-411 038. Ph-(020)25384737