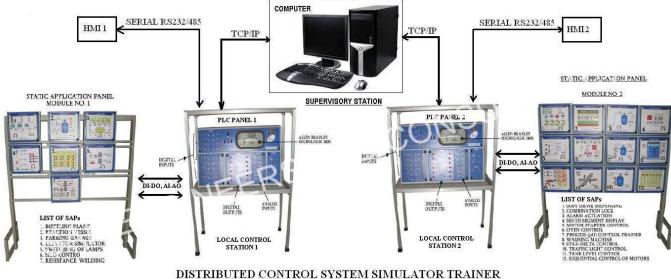
SAP E & C DISTRIBUTED CONTROL SYSTEM SIMULATOR TRAINER (PRODUCT CODE: SAP - 90)





The **Distributed Control System Simulator Trainer (SAP - 90)** outlines the principle of Distributed control System used in Industrial Environment. The Static Application Panels provide an idea of different Process Plants. The Static Application Panels (SAPs) are mounted on M S Powder coated Frame and can be arranged in sequence as per the requirement.

The SCADA software & an interfacing package, PLC-Master Controller based data logging & Distributed Control facility gives the overall idea regarding its application.

No.	Item Name	Technical Specifications
		A] PLC PANEL/ LOCAL CONTROL STATIONS:
	All digital as	well as Analog I/Os are brought out on these panels for easy connection.
1	PLC-	2 No.s, Allen-Bradley Micrologix 1400 L32BXBA / STD. Equivalent,
		8 Point Ethernet Switch. Digital inputs: 20, Digital outputs: 12 (Micrologix 1400)
		Analog Inputs: 4, Analog Outputs: 2
		RS LOGIX Software: 1 NO., Ladder diagram programming on PC.
		RS LOGIX 500 MICRO STARTER 9324RLM0100ENE.
		Communication- RS 232 / RS 485 / Ethernet/ TCP-IP.
2	Power Supply-	24 V DC, 3 A, Size: 4" (L) X 2" (W) X 2" (H).
3	Interface Facility-	PC interface facility. PC-PLC interfacing cable1761-CBL-PM02
4	RS 485 / RS 232	For Converting RS485 Signals (If RS 485 protocol is used) into RS232 signals.
	Converter-	
5	Electrical Control	MS Powder coated panel with switches, indicator, Test Points, controller on front
	Panel-	fascia, UK 2.5 Terminal Connectors mounted on DIN rail channel. Use of 1sq mm multi-
		strand wire with Proper insulated Lugs, Ferruling & neat wire Dressing & clamping
		Wires & power cables are Seated through 1"×1" PVC cable tray.
		Input - Output LED indication on front panel.
		Necessary Input -Output simulating devices.
		Front panel for display of digital I/O status: Lamps (14no.),
		LED Indicators (10no.)

Technical Specification:

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		SINCE 17
		B] SUPERVISORY STATIONS:
6	SCADA Application	Above PLC can be turned into SCADA Trainer using PC Based SCADA Application
	Software	Software. SCADA Application Software with 75 Tags is provided for Simulation of the
		following 19 Static Application Panels.
		RS View 75 Tags SCADA Application S/W, PID setting (P, PI And PID mode),
		Auto/Manual Tuning of PID, Software Data Storage, Off Line analysis, Online Data
		Acquisition, Simulation and Printing Of data in Graphical and tabular form.
		Interactive Graphical User Interface (GUI) includes.
7	Computer	PC with color monitor: 15", PC Pentium Dual Core/i3, with serial communication
		ports,
		250/500 GB HDD, 2 GB RAM.
		C] STATIC APPLICATION PANELS:
		[To be hooked up with PLC Trainer – (PCST – 14)]
	Simulating Modules con	sisting of Display on Mimic mounted on M.S. Powder Coated Frame with Indicators for
I	Input-Output & Toggle S	Switches.
:		e purchased either individually or collectively
	1) Oven Control	
	2) Bottling Plant	
	3) Parking Garage	
	4) Combination Lo	
	5) Elevator Simulat	tor
	6) Silo Control	
	Alarm Actuation	
	8) Motor Starter Co	
	9) Resistance Weld	
	10) Sequential Cont	
	11) Soft Drink Dispe	
	12) Star Delta Contr	
	13) Seven Segment	
	14) Switching Of Lar	
	15) Tank Level Cont	rol
	16) Traffic Light Con	
	17) Washing Machir	
	18) Reaction Vessel	
	19) Process (Ph) Cor	ntrol Trainer
	D] M.S.	. Powder Coated Frame for Mounting Eight Static Application Panels & for Supervisory Station
		E] HMI (Optional)

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Range of experiments-

- Study of Distributed Control System.
- Auxiliary Experiments.
- Study of Hierarchical control system.
- Study of SCADA Application Software/
- Computerized Control of Distributed Control System.

Features-

- Compact Ergonomic Design.
- User Friendly, Self Explanatory Systems.
- Leak proof safety Measures, sturdy piping.
- Enhanced Electrical Safety Considerations.
- Training Manuals & mimic Charts for Operation Ease.
- System Frame with Caster Wheel Arrangement for ease in movement.
- M.S. powder coated cubical plant with standard Instrument Mountings.
- Inbuilt safety Measures to avoid improper usage.
- Caster wheel mounted movable frame

Services Required:

Electrical supply of 1φ 230V 50Hz.

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
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