SAP E & C PROCESS SIMULATOR (PRODUCT CODE: SAP - 83)





PROCESS SIMULATOR (SAP – 83)

The **Process Simulator (SAP – 83)** is useful for understanding the Basic Principles of Data Acquisition System. This Setup gives idea about Data analysis of Different Process Parameters.

Technical Specification(A) CONTROL PANEL-

No.	Item Name	Technical Specifications
1	Data Logger-	Input: Universal type, 8 channel.
		Display: Dual, 3½ digit (for parameter & Channel display)
		Communication: RS232/USB PC Communication port
1		Dimensions : (92×92) mm, Communication cable
2	Current Source-	Supply 230V AC, O/P: 0-20mA.
3	Control Panel-	MS Powder coated control panel, Dimension: 1.5'X0.75'X1.5'
4	SCADA Application	SCADA Application Software, Data Storage, Offline Data Analysis Online
	Software-	Data Acquisition, Simulation and Printing of Data in Graphical & Tabular
		Format, Interactive Graphical User Interface (GUI)
5	Computer (Optional)-	PC with color monitor: 15", PC Pentium Dual Core, with serial
		communication ports, 160/300 GB HDD, 512 MB / 1 GB RAM
6	BS 5 Female	Red & Black
	Connectors-	

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(B) HYDRAULIC PUMP-

No.	Item Name	Technical Specifications
1	Hydraulic Pump	Manually Driven with weighing Platform
	(Optional)-	

(C) PRESUURE TRANSDUCER / TRANSMITTER MODULE-

No.	Item Name	Technical Specifications
1	Pressure Transmitter-	Input: 0-2.5 Kg/cm ² / 0-4 Kg/cm ² , Output: 4-20 mA
		Type: 2-wire Piezoresistive type, Mounting: Top ½" BSP connection
2	Pressure Vessel-	Shape: Cylindrical, Material: CRCC, Diameter: 6 inch, Length: 12 inch
		Capacity: 15 Kg/cm ² , with ½"BSP connection
3	A.F.R. / F.R.L. Unit-	0-10 Kg/cm ² , with pressure gauge
4	Current Indicator-	Input: 4-20 mA, 3 ½ digit display, 1φ 230 V AC Supply
5	Bellows Gauge-	0-300 mm Hg
6	Diaphragm Gauge-	0-2.5 Kg/cm ² / 0-4 Kg/cm ²
7	Bourdon Tube	Dial size: 4", Range 0-4 Kg/cm ²
	Pressure Gauge-	Bottom connection: ½" BSP Connection.
8	Air Compressor	Tank capacity: 25 Liters, Discharge: 2 CFM
	(Optional)-	Motor: 2 H.P. 230 V AC Operated, Working pressure: 5-6 kg/cm ²

(D) CHARACTERISTICS OF TEMPERATURE SENSOR SETUP

No.	Technical Specifications		
1	Temperature range: 0-500ºC.		
2	Calibration facility for Thermocouple & RTD.		
3	7-segment LED display for temperature Indicator controller.		
4	Test point for Thermisters, RTD (Resistance Measurement).		
5	Test point for voltage measurement for Thermocouple.		
6	3-½-digit display.		
7	Muffle furnace with insertion points for RTD, Thermocouple and Thermisters.		

Range of Experiments-

- Study of characteristics of Temperature Sensors
- Study of Various types of Pressure Sensors & Pressure Transmitter
- Data analysis using SCADA Application Software
- Study of Process Simulator Setup

Features:

- Compact Ergonomic Design.
- User Friendly, Self Explanatory Systems.
- Robust Construction...
- Enhanced Electrical Safety Considerations.
- Training Manuals, Mimic Charts for Operation Ease.
- Inbuilt Safety Measures to avoid improper usage.
- Computer Interface & SCADA Application software connectivity for analysis

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Services Required-

- Electric Supply of 230 VAC.
- Clean, dry, Compressed Air Supply: Pressure (5-6 Kg/cm²)

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,
Eklavya College Road (D.P.Road), Kothrud, Pune - 411 038, India

Telephone : (020) 2538 4737

Mobile : +91 94220 88946, +91 9552475082

Fax : (020) 2538 3544

Email : sales@sapengineers.com
Website : www.sapengineers.com / www.sapengineers.co.in