



The Process Simulator (52379) is useful for understanding the Basic Principles of Data Acquisition System. This Setup gives idea about Data analysis of Different Process Parameters.

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

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

Services Required

- Electric Supply of 230 VAC.
- Clean, Dry, Compressed Air Supply. Working Pressure: 5-6Kg/cm².

Note: Specifications are subject to change.

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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 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 Soft.	SCADA Application Software, Data Storage, Offline Data Analysis Online 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 Connectors	Red & Black

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

(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, 1j 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 Pressure Gauge	Dial size: 4", Range 0-4 Kg/cm ² Bottom connection: ½" BSP Connection.
8	Air Compressor (Optional)	Tank capacity: 25 Liters, Discharge: 2 CFM 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: 0-500°C.
2	Calibration facility for Thermocouple & RTD.
3	7-segment LED display for temperature Indicator controller.
4	Test point for Thermistors, 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 Thermistors.

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