



The **Advanced Customized Electro Pneumatic Trainer (SAP – 20B-EX)** is capable of being used to demonstrate the design, construction and application of electro-pneumatic components and circuits.

Objectives:-

The components are capable of being mounted on an appropriate profile plate with grooves for secure and flexible positioning so that the components can be clamped firmly, quickly and safely through quick fix adaptors. Industrial components are used in the kit so that the students get hands on practical training in using industrial components.



Technical Specification: -

No.	Item Name	Technical Specifications
1	Profile Plates & Stand-	The anodized Aluminum profile plate is the basis for training. All components fit
		securely & safely onto the profile plate with safe fixing arrangement ,Grid
		Dimensions: 50mm, Size: 1000 ×700mm
2	Shuttle Valve (OR)-	Make: JELPC/Eqvt
		1 No., The Shuttle Valve is switched through to the output by applying
		compressed air to one of the inputs (OR) function. Design type is OR gate
		(shuttle valve).Pressure range: (1-10 Bar)
3	Dual Pressure Valve	Make: JELPC/Eqvt
	(AND)-	1 No., the dual-pressure Valve is switched through to the output by applying
		compressed air to both the inputs (AND) Function. Design type is AND Gate
		(Dual Pressure Valve). Pressure Range: (1-10 Bar)
4	One way flow Control	Make: JELPC/Eqvt
	Valve Assembly-	1 No., the One - way flow control valve is a combination of flow control valve &
		a non-return valve. The cross section of the restrictor can be set by means of a
		Knurled screw. Design type is combined flow control Valve. Pressure range –
		(0.5-10 Bar)
5	Pressure Sequence Valve	Make: JELPC/Eqvt
	assembly-	1 No., The pressure of the control signal can be set by means of the pressure
		setting screw (variable). Design type is Poppet Valve with return spring,
		Operating Pressure range – $(1.8 - 8 \text{ bar})$. Control Pressure range - $(1 - 8 \text{ bar})$
6	Single Acting Cylinder-	1 No. : Design type is Piston Cylinder. Operating Pressure 10 bar. Stroke length-
		100mm
7	Double Acting Cylinder-	Design – Piston Cylinder. Operating Pressure – 10 bar, Stroke Length – Max 100
		mm
8	Manifold Assembly-	1 No., Manifold with 6 (2 \times 3) Hex-Ball Valve. A common manifold for plastic
		tubing allows supply of compressed air to the control via six individual ports (for
0		plastic tubing PUN 4×0.75)
9	Filter regulator with	Filter control valve with pressure gauge, gate valve, quick push-pull connectors
	Gauge-	& quick couplings mounted on a swivel support. The filter with water separator removes dirt, pipe sinter, rust & condensed water. The pressure control valve
		regulates the supply. Air pressure to the set operating pressure & compensates
		pressure fluctuations. The filter bowl has a condensate drain valve. The shutoff
		valve ventilates & vents entire control. Input pressure –Maximum (16
		bar),Output pressure – Max 12 bar, grade of filtration– 40 mm approx.,
		Connector – G 1/8 , / PU 4
10	Relay, Three fold-	1 No., the device has three relays with terminals and two buses for power
		supply. Contact set – Single change-over switches, Contact load – maximum 5 A
11	Signal Input, Electrical-	1 No., The device contains an illuminated push-button switch (control switch) &
		two illuminated push buttons (momentary contact switches) with terminals &
		two buses for power supply. Contact set- 2 makes, 2 breaks, Contact load- max
		1A.
12	Indicator & Distributor	1 No., The device contains an acoustic indicator and four lamps with terminals
	Unit, electrical-	and three buses for power supply. Through-contact socket pairs per lamp allow
		the element to also be used as a Distributor.
13	Proximity switch with	2 No. : The Proximity switch consists of a sensor, the mounting kit and the
	attachment-	cable. This proximity switch gives a signal when it detects a metal. The status is
		indicated by an LED. Switching Voltage – 24 VDC, Switching current – max. 200
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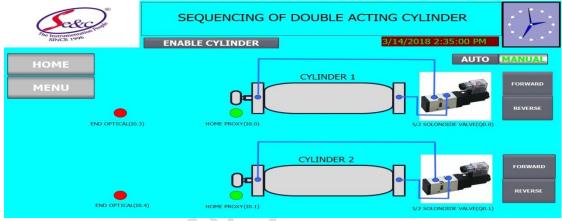
14 Equipment Tray- 1 No., MS powder cotated tray with slots for placing components to be supplied with Electro-pneumatic supplementary kit. 15 5/2 way single sided 1 No., The status is indicated by an LED on the housing. The valve is equipped with Electro-incled with return spring, Pressure range: 250-800 KPa (2.5-8 bar), Electrical Technical data: Power consumption – 1.5 W 16 5/2 Solenoid Valve, Double sided with LED- 1 No., The statuses are indicated by LEDs on the housings. The valve is equipped with wormanual overrides. Pneumatic Technical Data: Design-spool valve with pilot control, Pressure range – 150-800KPa (1.5-8 bar), Electrical Technical Data: Power Consumption – 1.5 W 17 Pneumatic – Electric 1 No., The pneumatic – electric convertor can fulfill 3 functions: Pressure Switch and Differential Pressure Switch. Onnector, P1: 0.25 to 3.5bar, Vacuum Switch: -0.2 to -0.8 bar, Differential Pressure Switch, Connector, P2: -0.95 to 3.5 bar) 18 Limit Switch, Left 1 No., The electrical limit switch comprises a mechanically operated micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch is actuated. The circuit is closed or opened via the contact load: maximum SA, switching frequency: maximum 2004z, Reproducible accuracy: 0.2mm, Switch travel: 2.7 mm, Actuator force: 5N 19 Limit Switch, Right actuated. 1 No., The electrical limit switch comprises a mechanically operated micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch cane be wired as a normally open or n			SINCE 147
15 5/2 way single sided Solenoid Valve with LED- in the manual override. Pneumatic Technical data: Design type is spool valve, pilot controlled with return spring. Pressure range: 250-800 KPa (2.5-8 bar), Electrical Technical data: Power consumption – 1.5 W 16 5/2 Solenoid Valve, Double sided with LED- in the manual override. Pneumatic Technical data: Design type is spool valve, pilot control, Pressure range – 150-800KPa (1.5-8 bar). Electrical Technical Data: Design-spool valve with pilot control, Pressure range – 150-800KPa (1.5-8 bar). Electrical Technical Data: Design-spool valve with pilot control, Pressure range – 150-800KPa (1.5-8 bar). 17 Pneumatic – Electric convertor. 1 No., The pneumatic – electric convertor can fulfill 3 functions: Pressure switch, Vacuum Switch and Differential Pressure Switch. 18 Limit Switch, Left Actuated- 1 No., The electrical limit switch comprises a mechanically operated micro- switch when the roller lever is pressed, for example, by control cam of acylinder, the micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch and be wired as a normally operated micro- switch. When the roller lever is pressed, for example, by control cam of a cylinder, the micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch can be wired as a normally open or normally closed or changeover contact. Contact load: maximum 5A, switching frequency: maximum 200Hz, Reproducible accuracy: 0.2mm, Switc			mA, Switching Power – 6 W approx, switching accuracy - ±0.1mm
15 5/2 way single sided Solenoid Valve with LED- piot controlled with return spring, Pressure range: 250-800 KPa (2.5-8 bar), Electrical Technical data: Power consumption – 1.5 W 16 5/2 Solenoid Valve, Double sided with LED- uble sided with LED- in two manual overrides. Pneumatic Technical Data: Design type is spool valve, pilot controlled with return spring, Pressure range: 250-800 KPa (2.5-8 bar), Electrical Technical data: Power consumption – 1.5 W 17 Pneumatic – Electric convertor- 1 No., The statuses are indicated by LEDs on the housing. The valve is equipped with wo manual overrides. Pneumatic Technical Data: Design-spool valve with pilot control, Pressure range – 150-800KPa (1.5-8 bar) Electrical Technical Data: Power Consumption – 1.5 W 17 Pneumatic – Electric convertor- 1 No., The statuses pressure Switch: connector, PI: 0.25 to 3.5bar, Vacuum Switch: -0.2 to -0.8 bar, Differential Pressure Switch: Connector, P2 - (-0.95 to 3.5 bar) 18 Limit Switch, Left Actuated- 1 No., The electrical limit switch comprises a mechanically operated micro- switch. When the roller lever is pressed, for example, by control cam of a cylinder, the micro-switch is actuated. The circuit is closed or opened via the contact. The micro-switch is actuated. The circuit is closed or opened via the contact. The micro-switch is actuated. The circuit is closed or opened via the contact. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch is actuated. The circuit is closed o	14	Equipment Tray-	
Solenoid Valve with LED- pilot controlled with return spring, Pressure range: 250-800 KPa (2.5-8 bar), Electrical Technical data: Power consumption - 1.5 W165/2 Solenoid Valve, Double sided with LED- Double sided side contact side side side side side side side side			with Electro-pneumatic supplementary kit.
pilot controlled with return spring, Pressure range: 250-800 KPa (2.5-8 bar), Electrical Technical data: Power consumption -1.5 W165/2 Solenoid Valve, Double sided with LED- Double sided with LED- Double sided with LED- Double sided with LED- Double sided with LED- 	15	5/2 way single sided	1 No., The status is indicated by an LED on the housing. The valve is equipped
16Electrical Technical data: Power consumption – 1.5 W165/2 Solenoid Valve, Double sided with LED- with two manual overrides. Pneumatic Chechnical Data: Design-spool valve with pilot control, Pressure range – 150-800KPa (1.5-8 bar) Electrical Technical Data: Power Consumption – 1.5 W17Pneumatic – Electric convertor-1 No., The pneumatic – electric convertor can fulfill 3 functions: Pressure Switch, Vacuum Switch and Differential Pressure Switch. Pneumatic Technical Data- Pressure Ranges: Pressure Switch connector, P1 0.25 to 3.5bar, Vacuum Switch: -0.2 to -0.8 bar, Differential Pressure Switch: Connector, P2 - (-0.95 to 3.5 bar)18Limit Switch, Left Actuated-1 No., The electrical limit switch comprises a mechanically operated micro- switch. When the roller lever is pressed, for example, by control cam of a cylinder, the micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch can be wired as a normally open or normally closed or changeover contact. Contact load: maximum 5A, switch ing frequency: maximum 200Hz, Reproducible accuracy: 0.2mm, Switch travel: 2.7 mm, Actuator force: SN19Limit Switch, Right actuated-1 No., The electrical limit switch can be wired as a normally open renormally closed or changeover contact. Contact load: maximum 5A, switching frequency: maximum 200Hz, Reproducible accuracy: 0.2mm, Switch travel: 2.7 mm, Actuator force: SN20Plug in adapter-For mounting components with plug-in foot on the aluminum profile plate. 1 No., Input Voltage: 230 / 115 VAC (47 - 63 Hz.), Output Voltage: 24V DC, short circuit proof, output current: Max. 4.5 A, Connection Cable - 3m21Power Supply Unit-1 No., Input Voltage: 230 / 115 VAC (47 - 63 Hz.), Output Volta		Solenoid Valve with LED-	with a manual override. Pneumatic Technical data: Design type is spool valve,
16 5/2 Solenoid Valve, Double sided with LED- 1 No., The statuses are indicated by LEDs on the housings. The valve is equipped with two manual overrides. Pneumatic Technical Data: Design-spool valve with Differential Pressure range - 150-800 KP4 (1.5-8 bar) Electrical Technical Data: Power Consumption - 1.5 W 17 Pneumatic - Electric convertor- 1 No., The pneumatic - electric convertor can fuffill 3 functions: Pressure Switch, Vacuum Switch and Differential Pressure Switch. Pneumatic Technical Data- Pressure Ranges: Pressure Switch connector, P1: 0.25 to 3.5bar, Vacuum Switch: -0.2 to -0.8 bar, Differential Pressure Switch; Connector, P2 - (-0.95 to 3.5 bar) 18 Limit Switch, Left Actuated- 1 No., The electrical limit switch comprises a mechanically operated micro- switch. When the roller lever is pressed, for example, by control cam of a cylinder, the micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch can be wired as a normally open or normally closed or changeover contact. 19 Limit Switch, Right actuated- 1 No., The electrical limit switch comprises a mechanically operated micro- switch. When the roller lever is pressed, for example, by control cam of a cylinder, the micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch can be wired as a normally open or normally closed or changeover contact. Contact load: maximum 5A, switching frequency: maximum 200Hz, Reproducible accuracy: 0.2mn, Switch travel: 2.7 mm, Actuator force: SN 20 Plug in adapter- For mounting components with plug-in foot on the aluminum profile plate. 21 Power Supply Unit- 1 No., Input Voltage:			pilot controlled with return spring, Pressure range: 250-800 KPa (2.5-8 bar),
Double sided with LED- iol control, Pressure range – ISO-800KPa (1.5-8 bar) Electrical Technical Data: Power Consumption – 1.5 W17Pneumatic – Electric convertor-1 No., The pneumatic – electric convertor can fulfill 3 functions: Pressure Switch, Vacuum Switch and Differential Pressure Switch. Pneumatic Technical Data Pressure Ranges: Pressure Switch connector, P1: 0.25 to 3.5bar, Vacuum Switch: -0.2 to -0.8 bar, Differential Pressure Switch: Connector, P2 - (-0.95 to 3.5 bar)18Limit Switch, Left Actuated-1 No., The electrical limit switch comprises a mechanically operated micro- switch. When the roller lever is pressed, for example, by control cam of a cylinder, the micro-switch can be wired as a normally open or normally closed or changeover contact. Contact load: maximum SA, switching frequency: maximum 200Hz, Reproducible accuracy 0.2mm, Switch travel: 2.7 mm, Actuator force: 5N19Limit Switch, Right actuated-1 No., Ine electrical limit switch comprises a mechanically opened wit the contacts. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch can be wired as a normally open or normally closed or changeover contact. Contact load: maximum SA, switching frequency: maximum 200Hz, Reproducible accuracy: 0.2mm, Switch travel: 2.7 mm, Actuator force: 5N20Plug in adapter- For mounting components with plug-in foot on the aluminum profile plate.21Power Supply Unit- Single with LED- Single with LED			Electrical Technical data: Power consumption – 1.5 W
Double sided with LED- iol control, Pressure range – ISO-800KPa (1.5-8 bar) Electrical Technical Data: Power Consumption – 1.5 W17Pneumatic – Electric convertor-1 No., The pneumatic – electric convertor can fulfill 3 functions: Pressure Switch, Vacuum Switch and Differential Pressure Switch. Pneumatic Technical Data Pressure Ranges: Pressure Switch connector, P1: 0.25 to 3.5bar, Vacuum Switch: -0.2 to -0.8 bar, Differential Pressure Switch: Connector, P2 - (-0.95 to 3.5 bar)18Limit Switch, Left Actuated-1 No., The electrical limit switch comprises a mechanically operated micro- switch. When the roller lever is pressed, for example, by control cam of a cylinder, the micro-switch can be wired as a normally open or normally closed or changeover contact. Contact load: maximum SA, switching frequency: maximum 200Hz, Reproducible accuracy 0.2mm, Switch travel: 2.7 mm, Actuator force: 5N19Limit Switch, Right actuated-1 No., Ine electrical limit switch comprises a mechanically opened wit the contacts. The micro-switch is actuated. The circuit is closed or opened via the contacts. The micro-switch can be wired as a normally open or normally closed or changeover contact. Contact load: maximum SA, switching frequency: maximum 200Hz, Reproducible accuracy: 0.2mm, Switch travel: 2.7 mm, Actuator force: 5N20Plug in adapter- For mounting components with plug-in foot on the aluminum profile plate.21Power Supply Unit- Single with LED- Single with LED	16	5/2 Solenoid Valve,	
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3.5 bar)18Limit Switch, Left Actuated-1 No., The electrical limit switch comprises a mechanically operated micro- switch. When the roller lever is pressed, for example, by control cam of a cylinder, the micro-switch can be wired as a normally open or normally closed or changeover contact. Contact load: maximum 5A, switching frequency: maximum 200Hz, Reproducible accuracy: 0.2mm, Switch travel: 2.7 mm, Actuator force: 5N19Limit Switch, Right actuated-1 No., The electrical limit switch comprises a mechanically operated micro- switch. When the roller lever is pressed, for example, by control cam of a cylinder, the micro-switch can be wired as a normally open or normally closed or changeover contact. Contact load: maximum 5A, switching frequency: maximum 200Hz, Reproducible accuracy: 0.2mm, Switch travel: 2.7 mm, Actuator force: 5N20Plug in adapter- Power Supply Unit-For mounting components with plug-in foot on the aluminum profile plate. 1 No., Input Voltage: 230 / 115 VAC (47 - 63 Hz.), Output Voltage: 24 V DC, short circuit proof, output current: Max. 4.5 A, Connection Cable – 3m223/2 Solenoid Valve, Single with LED-1No.: The status is indicated by an LED on the housing. The valve is equipped with a manual override. Pneumatic Technical data: Design type is spool valve, pilot controlled with return spring, Pressure range : 250-800 kPa (2.5-8 bar), Electrical24Plastic Tubing-PUN 4x0.75, Exterior Diameter-6mm, Interior Diameter- 4mm, Transparent – 10mtrs/Blue-10mtrs			
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or changeover contact. Contact load: maximum 5A, switching frequency: maximum 200Hz, Reproducible accuracy: 0.2mm, Switch travel: 2.7 mm, Actuator force: 5N20Plug in adapter- Power Supply Unit- Single with LED-For mounting components with plug-in foot on the aluminum profile plate.21Power Supply Unit- Single with LED-1 No., Input Voltage: 230 / 115 VAC (47 - 63 Hz.), Output Voltage: 24 V DC, short circuit proof, output current: Max. 4.5 A, Connection Cable – 3m223/2 Solenoid Valve, Single with LED-1 No.: The status is indicated by an LED on the housing. The valve is equipped with a manual override. Pneumatic Technical data: Design type is spool valve, pilot controlled with return spring, Pressure range : 250-800 kPa (2.5-8 bar), Electrical23Quick Push-Pull connectors-Sufficient shall be supplied for branching of the tubing for making of the circuitry24Plastic Tubing-PUN 4×0.75, Exterior Diameter-6mm, Interior Diameter- 4mm, Transparent – 10mtrs/Blue-10mtrs			cylinder, the micro-switch is actuated. The circuit is closed or opened via the
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20Plug in adapter-Reproducible accuracy: 0.2mm, Switch travel: 2.7 mm, Actuator force: 5N21Power Supply Unit-For mounting components with plug-in foot on the aluminum profile plate.21Power Supply Unit-1 No., Input Voltage: 230 / 115 VAC (47 - 63 Hz.), Output Voltage: 24 V DC, short circuit proof, output current: Max. 4.5 A, Connection Cable – 3m223/2 Solenoid Valve, Single with LED-1 No.: The status is indicated by an LED on the housing. The valve is equipped with a manual override. Pneumatic Technical data: Design type is spool valve, pilot controlled with return spring, Pressure range : 250-800 kPa (2.5-8 bar), Electrical23Quick Push-Pull connectors-Sufficient shall be supplied for branching of the tubing for making of the circuitry24Plastic Tubing-PUN 4×0.75, Exterior Diameter-6mm, Interior Diameter- 4mm, Transparent – 10mtrs/Blue-10mtrs			or changeover contact. Contact load: maximum 5A, switching frequency:
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23 Quick Push-Pull connectors- Sufficient shall be supplied for branching of the tubing for making of the circuitry 24 Plastic Tubing- PUN 4×0.75, Exterior Diameter-6mm, Interior Diameter- 4mm, Transparent – 10mtrs/Blue-10mtrs			
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connectors- circuitry 24 Plastic Tubing- PUN 4×0.75, Exterior Diameter-6mm, Interior Diameter- 4mm, Transparent – 10mtrs/Blue-10mtrs	23	Quick Push-Pull	
24 Plastic Tubing- PUN 4×0.75, Exterior Diameter-6mm, Interior Diameter- 4mm, Transparent – 10mtrs/Blue-10mtrs			
10mtrs/Blue-10mtrs	24		
25 Set of molded Cables- 1.5 Meter (2 core) - 4 No. 1.5 Meter (3 core) - 3 No.			
	25	Set of molded Cables-	1 5 Meter (2 core) - 4 No. 1 5 Meter (3 core) - 3 No.
1 E Mator (1 coro): Pod OE Noc Plack OE Noc	25	Set of molded Cables-	
1.5 Meter (1 core): Red- 05 Nos, Black- 05 Nos.			
BS5 Patch cords: Red - 5 Nos.(Approx. 300mm)., Black - 5 Nos.(Approx.300mm)	26		
26 Hand Lever Operated 3/2 Hand Lever Operated Valve -1 No. & 5/2 Hand Lever operated Valves-1 No.	26	-	
Valveeach Connection: ¼" Connection. Design type is spool valve. Actuation using		valve	
Hand Lever.			Hand Lever.

For More Details Visit Our Website At: <u>www.sapengineers.com</u>, <u>www.sapengineers.co.in</u> E-mail:- <u>sales@sapengineers.com</u> SAP Engineers & Consultants, Kothrud, Pune-411 038, India. Ph-(020)25384737



		SLACE
27	5/2 Push Button	1 No. Connection: ¼" Connection. Design type is spool valve. Actuation using
	Operated Valve	Push Button.
28	Quick Exhaust Valve	1 No. Connection: ¼" Connection
29	Pneumatic Motor	Unidirectional, Air pressure: 0-90 psi.
30	3/2 Pilot operated valve	3/2 way Valve, ¼" Connection
31	PLC Panel (Optional)-	Make: Siemens Logo / A-B MICRO 810 Equivalent, Digital Input: 8, Digital
		Output: 4, Input / Output LED indication on front Facia of the panel.
32	Time Delay Valve-	1 No. Connection: ¼" Connection
33	Electronic Timer	1 No., Power Supply -24VDC with C,NO,NC terminals
	(Optional)-	
34	Air Compressor	Tank capacity: 25 Liters, Discharge: 2 CFM, Motor: 1 H.P. 230 V AC Operated,
	(Optional)-	Working Pressure: 5-6 kg/cm ²
35	Pneumatic Simulation Soft	ware (Optional)

Simulation Software (Optional):



Range of experiments:

- Study of Advanced Electro Pneumatic Trainer.
- Study of Self Reciprocation of Single Acting Cylinder by Using Electric Limit Switch & 3/2 Solenoid Valve
- Study of Self Reciprocation of Double Acting Cylinder by Using Proximity Switch & 5/2 Double Sided S.V.
- Study of Self Reciprocation of Double Acting Cylinder by Using Proximity Switches & 5/2 Single Sided S.V.
- Study of AND Valve (Dual Pressure Valve)
- Study of Shuttle Valve (OR Valve)
- Study of Quick Exhaust Valve
- Study of operation of Hand Lever Valve (3/2 & 5/2 DCV)
- Study of operation Of 5/2 Push Button Valve
- Study of operation Of 3/2 Single Pilot Operated Valve
- Study of Pressure Sequence Valve
- Study of Flow Control Valve & Pneumatic Motor
- Study of P To E Converter
- Study of using Signal Input Electrical Box , Relay Three Fold, Indicator & Distributor Unit
- Study of Pneumatic & Electro-Pneumatic Circuits.
- Study of PLC Based cylinder position sensing & Actuation of Solenoid Valves (Optional)
- Study of Time Delay Valve
- Study of Electronic Timer (Optional)
- Study of Operation of Pneumatic Simulation Software (SCADA) (Optional)



Features: -

- Function & identification of Electro-pneumatic components & their symbols.
- Direct and indirect manual controls, stroke dependant controls, time dependant and pressure dependant controls with time delay, pressure sequence valves.
- Design & function of a electro-pneumatic System.
- Functional diagrams.
- Logic AND/OR function to start signals.
- Application and fault findings of Electro Pneumatic controls.
- Pneumatic power section Electric control section.
- To empower students to design their own circuits.
- The kit is modular and upgradeable.
- Training literature Instruction & operation manual , troubleshooting & maintenance tips will be provided in soft copy as well as hard copy format

System Dimension: 4 Ft. (L) X 2 Ft. (W) X 6.5 Ft. (H)

Weight: Approx. 110 Kg

Services Required:

- Compressed clean, dry air supply at 4-5 Kg/cm².
- Electric Supply of 1φ 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
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