SAP E & C CALIBRATION TRAINER (PRODUCT CODE: SAP – 92)





Calibration Trainer (Product Code: Sap - 92) gives an idea regarding the procedure for operation & calibration of Actuators & Transducers. Electricals and pneumatic signals are used for the operation and calibration of these Actuators & Transducers. Precision Air Pressure Regulator (APR) with manometer are used to generate pneumatic signals. Voltage-Current source is used as auxiliary power source for instruments which requires electrical supply as a input. Various control loop components such as Control valve with positioner, Voltage-Current source, Calibrator, Controller, Transducers are used in the calibration trainer using supplied hoses and cables.

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Technical Specification: -

No.	Item Name	Technical Specifications
1	Controller	With Serial PC Interface (ASCII Protocol) USB / Ethernet / RS 485 / RS 232, Cut Out Size: 92mm×92mm×144mm, Input: 4-20 mA, Output: 4-20 mA, Display: Dual for PV & SP, Bar graph display for Output & deviation, Hi-Low Alarm annunciation.
2	Differential Pressure	Input: 0-4000 mm of WC, Output: 4-20 mA,
	Transmitter	Power supply: 24 V DC, 30 mA.
3	U-Tube Manometer	Range: 0-1000 mm of WC, Glass tube type
4	Precision Air Pressure Regulator	0-2.1 Kg/cm ² With gauge, Vertical wall mounting type
5	Pneumatic Control Valve with Electro Pneumatic Positioner	Size: ½", Type: Two way Globe type (Air to Close), Cv: 5 US GPM, with diaphragm actuator, equal % characteristics. Positioner I/P: 4-20mA & O/P: 3-15 psig.
6	Calibrator	Hand held portable source and sink for mV, mA, Resistance & Temperature. Battery as well as 230V AC operated, With fine and Coarse adjustment.
7	Pressure Transmitter	Input: 0-2.5 Kg/cm ² / 0-4 Kg/cm ² , Output: 4-20 mA, Type: 2-wire Piezoresistive type, Supply: 24 V DC, 50 mA, Mounting: Top ½"BSP connection
8	Process Indicator	Input: 4-20 mA, 3 ½ digit display, 230 V AC operated
9	Voltage-Current Source	Input: 230 V AC Supply, Output: 0-10V & 4-20mA
10	Air manifold	¼", 4/6 ways.
11	Air Compressor	Tank capacity: 25 Liters, Discharge: 2 CFM
	(Optional)	Motor: 1 H.P. 230 V AC Operated, Working pressure: 5-6 kg/cm ²

Features-

- Compact Ergonomic Design.
- User Friendly, Self Explanatory Systems.
- Robust Construction.
- MS Powder coated movable vertical Frame.
- Training Manual for Operation Ease.
- Caster wheel mounted movable frame

Range of Experiments-

- To study the Calibration of Differential Pressure Transmitter
- To study the Calibration of Manometer
- To study the Calibration of Pressure Transmitter
- To study the Operation & inherent characteristics of Pneumatic Control Valve
- To study the Operation of Electro Pneumatic Positioner
- To study the Operation of Universal Calibrator
- To study the Operation of Controller
- To study the Operation of different signals: 1) Pneumatic Signal, 2) Electrical Signal.
- To study of inter connection of control loop components

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- Differential Pressure Transmitter
- Controller
- Manometer
- Precision Regulator
- Process Indicator (mA indicator)
- Air supply distribution manifold
- Pressure Transmitter
- Calibrator
- Pneumatic Control Valve with Positioner
- Voltage-Current Source

Services Required-

- Electric supply 230 V AC, 50 Hz.
- Suitable compressed air supply (0-4 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.

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