

Electro-Pneumatic Training Panel EPTP**Key Features:**

- Self contained
- Fits easily onto a bench top
- Study of pneumatic actuators
- Study of Electro-pneumatic valves
- Study of control valves
- Connection to PLC
- Characteristics of Electro-Pneumatic control valves, Cylinders, and flow regulators
- Building Pneumatic circuits

The is a compact and comprehensive training panel comprising cylinders, valves, both electrical and electro-pneumatic, that are easily connected through 4mm colour coded terminals and 4mm pneumatic quick action terminations, this makes the EPTP is an ideal introduction to Electro-Pneumatics. The student can study single and double acting cylinders using various types of valves. The EPTP comprises power supply, On/Off switch with indicator light; emergency stop; two-way selector switch; 5/3 monostable valves, 5/2 monostable valve, 5/2 flip flop Valve, 5/3 open centre valve, 5/3 closed centre valve, flow regulators, single acting cylinder, double acting cylinder and .magnetic reed switches

Courseware covers a general introduction to the EPTP, the electrical and pneumatic connection, the characteristics and use of the various types of valves, the characteristics of the cylinders, how they can be connected to the valves, using a PLC to control the system. The coursework is supplemented by technical documentation.

Curriculum Coverage

- Description of the system
- General characteristics and user guide
- Pneumatic supply
- Electrical power supply
- 5/3 Monostable valves 3/2 sub-base
- 5/2 Monostable valve
- 5/2 Flip Flop Valve
- 5/3 Open centre valve
- 5/3 Closed centre valve
- Flow regulator
- Lock out valves
- The single acting cylinder
- The double acting cylinder
- Using the magnetic reed switches
- Technical information
- Summary of components
- Symbols
- Conversation tables
- Sub D type connections

Labworks

- Connection of a 5/2 monostable valve and 3/2 distributor with a single acting cylinder
- Connection of a 5/2 valve and single acting cylinder with a set speed and return output
- Connection of a 5/2 valve with a single acting cylinder and speed input regulator
- Connection of a 5/2 valve with a double acting cylinder and lock out valves
- Connection of a 5/3 closed centre valve with a double acting cylinder
- Connection of a 5/2 valve with a double acting cylinder and lock out valves
- Connection of a 5/3 open centre valve with a double acting cylinder
- Stopping the cylinder in a given position
- Connection with a PLC

Specification

Electrical characteristics	On/Off power switch with indicator light Two-way selector switch 4mm colour coded connectors
Pneumatic characteristics	ON/OFF switch with indicator light Emergency stop Two-way selector switch Single acting cylinders 32mm, 25mm long rod movement Double acting cylinder 32mm, 25mm long rod movements with ILS type sensors 5/3 Monostable valves 3/2 sub-base 5/2 Monostable valve 5/2 Flip Flop Valve 5/3 Open centre valve 5/3 Closed centre valve 2 x Unidirectional flow regulator 2 x Bidirectional flow regulator Five-way distributor 4mm Push in fittings 6 bar pressure
Power supply requirements	230V a.c. 24V dc integral power supply

Required

A suitable PC and or PLC

Ordering Information



Model Number: EPTP
Consists of: 1 x Electro-pneumatic training panel
1 x Mains connector
1 x Set of 4mm connecting leads
Coursework with labworks and technical Information

Weights and Dimensions

Un-Packed

Approximate Dimensions (mm) 600W x 440D x 180H
Approximate Weights 22Kg

Packed

Approximate Dimensions (mm) 700W x 600D x 400H
Approximate Weights 25Kg



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