



MACHINE VISION & CONTROL AUTOMATION

**Control Easy Technology Sdn. Bhd.** (924757-A)

**Industry Machine Vision, Motion, PLC & PC Control Automation Systems.**

**Education Control Training Systems.**

No 28G &1, The Atmosphere, Jalan Atmosphere 5, Bandar Putra Permai,  
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No	Product Description	Product Code
01	Pneumatics Control Training System	EZ-PM001
02	Pneumatics Control Training System	EZ-PM002

*Note:*

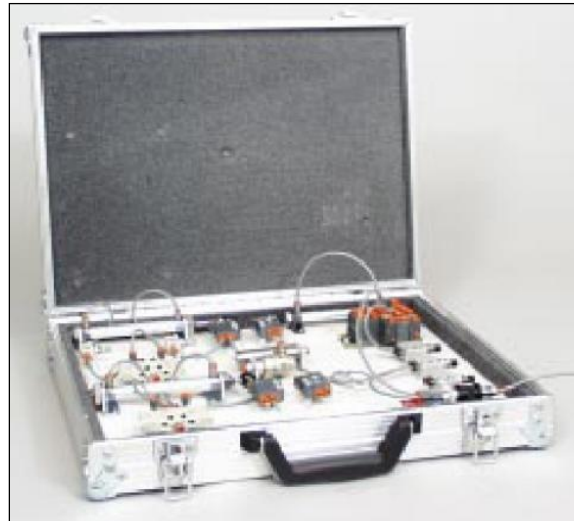
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### **Pneumatics Control Training System Model : EZ-PM001**



The Pneumatics Trainer is supplied complete and comprises the following **components**:

<ul style="list-style-type: none"><li>• Single Acting Cylinder with Striker Cam</li></ul>	<ul style="list-style-type: none"><li>• 3 Off 3/2 way Directional Control Valve</li></ul>
<ul style="list-style-type: none"><li>• 2 Off Double Acting Cylinder with Striker Cam 3/2 way</li></ul>	<ul style="list-style-type: none"><li>• Quick Exhaust Valve</li></ul>
<ul style="list-style-type: none"><li>• 4 way Manifold</li></ul>	<ul style="list-style-type: none"><li>• Air Reservoir</li></ul>

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### **Logic 'kit' comprises:**

- 'or' module
- 'and' module
- 'yes' module
- 'not' module
- 'memory' module
- More complex pneumatic components operation and application.
- Stroke dependent control circuitry design and construction with sensors and able to interface with PLC.
- Control circuitry using air components.
- Complete sequential control circuitry.
- Emergency safety circuitry.
- Trouble shooting and safety conditions.

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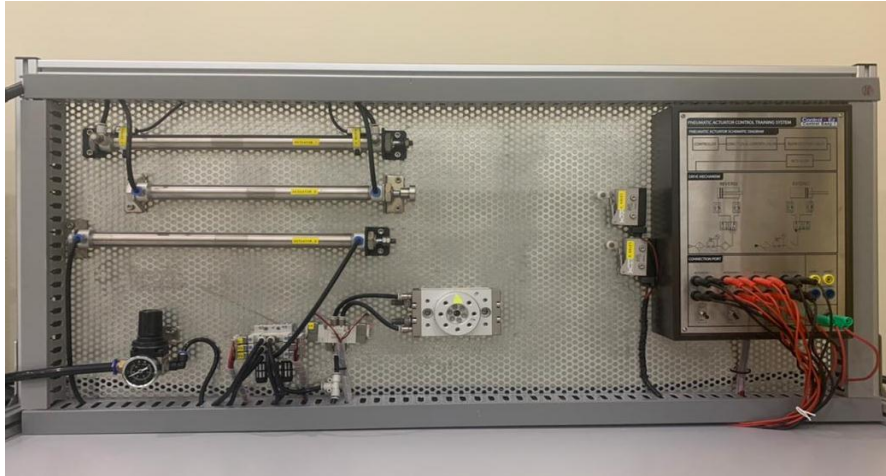
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## **Pneumatics Control Training System** **Model : EZ-PM002**



Pneumatics has long since played an important role as a technology in the performance of mechanical work. It is also used in the development of automation solutions. In the majority of applications compressed air is used for one or more of the following functions:

- To determine the status of processors (sensors)
- Information processing (processors)
- Switching of actuators by means of final control elements
- Carrying out work (actuators)

The product development in pneumatics can be considered in a number of areas:

- Actuators
- Sensors and input devices
- Processors
- Accessories
- Control systems

*Note:*

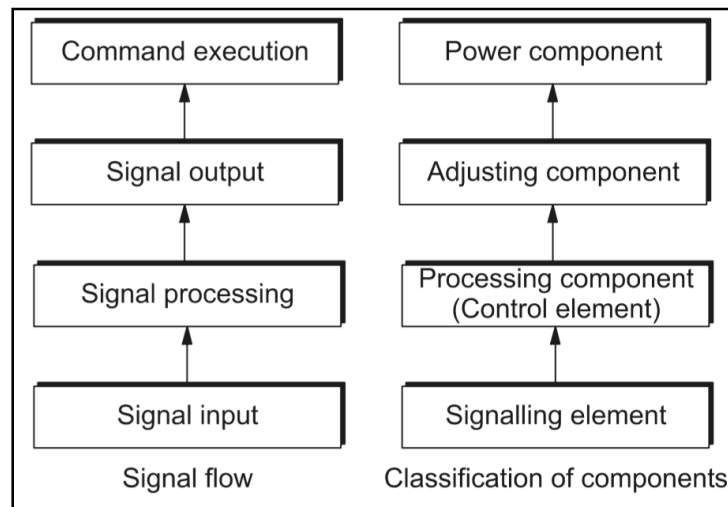
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The pneumatic actuator can be described under two groups, linear and rotary:

- Linear motion
  - Single-acting cylinders
  - Double-acting cylinders
- Rotary motion
  - Air motor
  - Rotary cylinders
  - Rotary actuator

### Structure and signal flow of pneumatic systems

Pneumatic systems consist of an interconnection of different groups of Elements.



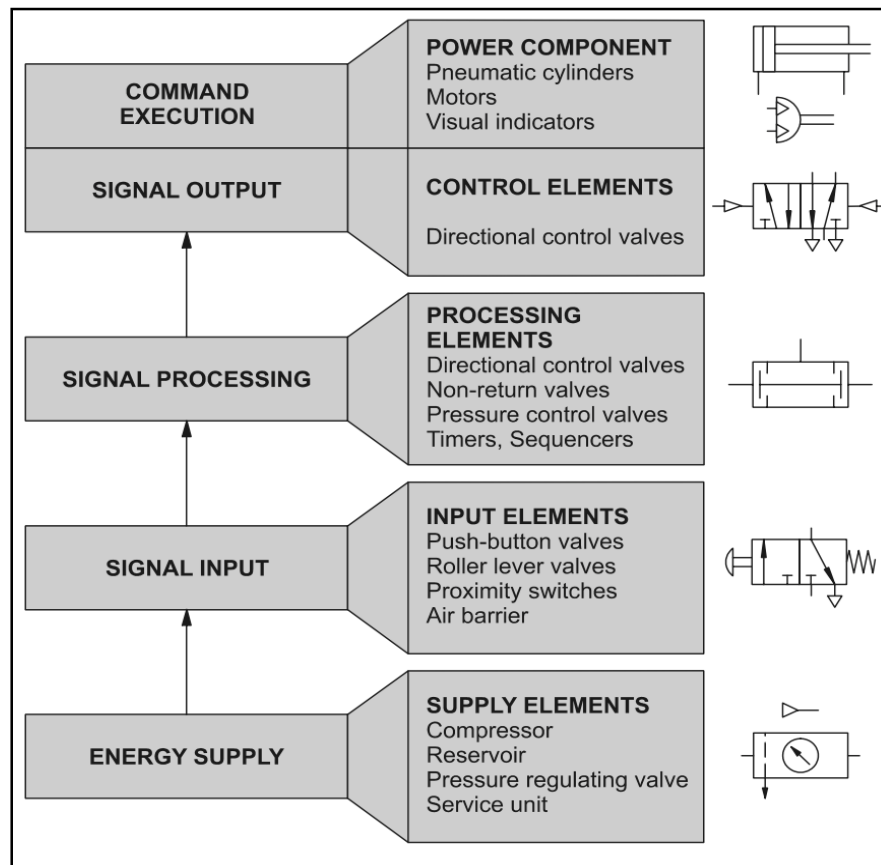
Signal Flow

This group of elements forms a control path for signal flow, starting from the signal section (input) through to the actuating section (output). Control elements control the actuating elements in accordance with the signals received from the processing elements.

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The elements in the system are represented by symbols which indicate the function of the element.



Pneumatic control system

A directional control valve can be used as an input, processing or control element. The distinguishing feature for the allocation of the individual components to the respective groups of elements is the configuration within a pneumatic system.

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