

The advanced pneumatics and electro-pneumatics trainers FP-202 are composed of actual industrial grade pneumatics and electro-pneumatics parts which are commonly apply and used in industrial field. It is classified into basic level for basic knowledge and control method and advanced level for high level control.

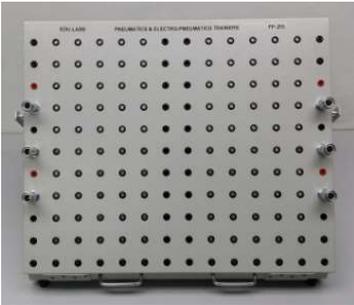
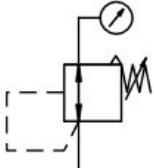
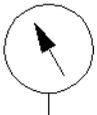
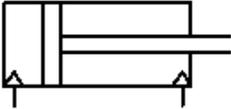
It is easily customizable in modular the logical analysis of electric circuits, design and wiring in pneumatics and electro-pneumatics training experiments, which is included electric control for pneumatic sequence control. The expansion and compatibility of this system was considered with a 4mm binding post banana socket. Sensor protection circuit was integrated for the safety of the training set.

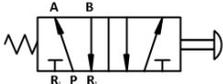
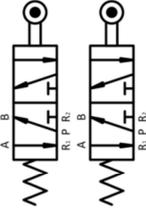
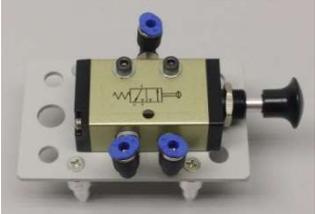
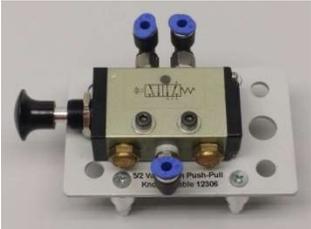
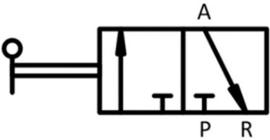
It uses a standard plug-in profile panel board for common use of all the training set. Each part could be horizontally or vertically attached and detached on the profile panel without any tools.

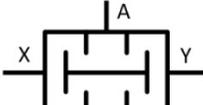
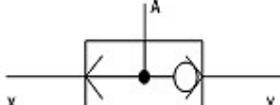
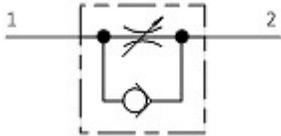
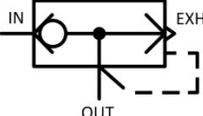
Features

- Modular design allows modifications to suit needs/requirements of the course/students
- Custom sizes for the plug-in profile panel board can also be provided upon request.
- Additional modular components can be also available separately should the need arise.
- High quality durable rubber-silicone compound grommet on the plug-in profile panel ensures that the components stay in place yet smooth enough to ease removal and placement of components.
- Comes with high quality industrial grade components.
- Unit comes with various height (tilt) settings

Pneumatics Components

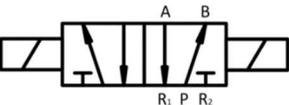
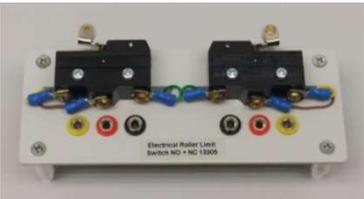
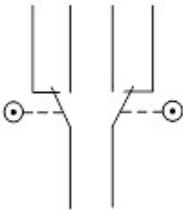
| No | Component | Description | Symbol |
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| 1 |  | <p>(11010)</p> <p>Modular Profile Panel Board (600 mm x 700 mm)</p> <ul style="list-style-type: none"> • 140 Rubber Grommet Profile Plug Points • Air Manifold: 6 x Quick Coupler Pressure Port | <p>1 Unit</p> |
| 2 |  | <p>(12101)</p> <p>Air Service Unit with Pressure Regulator, Gauge, Filter, Lubricator & Shut-Off Valve</p> |  <p>1 Unit</p> |
| 3 |  | <p>(12102)</p> <p>Pressure Regulator c/w Gauge</p> |  <p>1 Unit</p> |
| 4 |  | <p>(12103)</p> <p>Pressure Gauge</p> |  <p>1 Unit</p> |
| 5 |  | <p>(12201)</p> <p>Double Acting Cylinder (25 mm x 100 mm)</p> |  <p>1 Unit</p> |
| 6 |  | <p>(12202)</p> <p>Single Acting Cylinder (25 mm x 50 mm)</p> |  <p>1 Unit</p> |

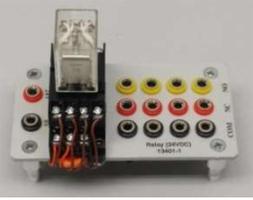
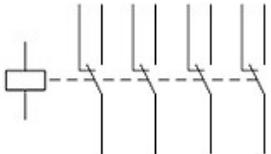
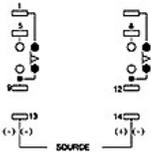
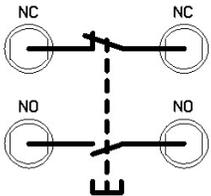
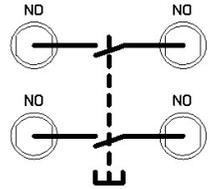
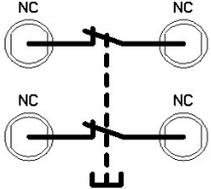
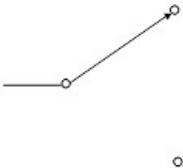
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| 7 |  | <p>(12301-01)</p> <p>3/2 Way Push Button / Spring Return Valve (N.C.)</p> |  <p>1 Unit</p> |
| 8 |  | <p>(12302)</p> <p>5/2 Way Push Button / Spring Return Valve</p> |  <p>1 Unit</p> |
| 9 |  | <p>(12304)</p> <p>5/2 Way Roller / Spring Return Valve (1x2)</p> <p>Valve : Left x 1, Right x 1</p> |  <p>1 Unit</p> |
| 10 |  | <p>(12305)</p> <p>3/2 Way Push-Pull Knob / Bistable Valve</p> |  <p>1 Unit</p> |
| 11 |  | <p>(12306)</p> <p>5/2 Way Push-Pull Knob / Bistable Valve</p> |  <p>1 Unit</p> |
| 12 |  | <p>(12401)</p> <p>3/2 Way Pull Knob (Hand Lever) Valve</p> |  <p>1 Unit</p> |
| 13 |  | <p>(12402)</p> <p>5/2 Way Pull Knob (Hand Lever) Valve</p> |  <p>1 Unit</p> |

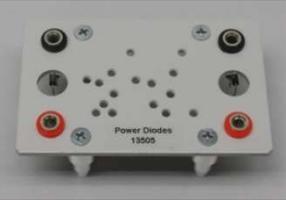
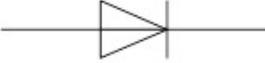
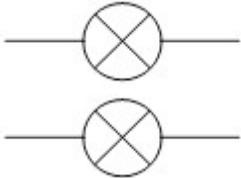
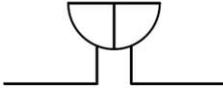
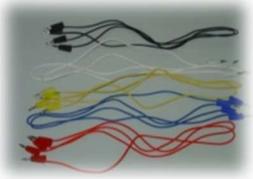
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| 14 |  | <p>(12501-01)</p> <p>3/2 Way Single Pilot / Spring Return Valve (N.C.)</p> |  <p>1 Unit</p> |
| 15 |  | <p>(12502)</p> <p>5/2 Way Single Pilot / Spring Return Valve</p> |  <p>1 Unit</p> |
| 16 |  | <p>(12503)</p> <p>5/2 Way Double Pilot / Bistable Valve</p> |  <p>1 Unit</p> |
| 17 |  | <p>(12601)</p> <p>AND Valve</p> |  <p>1 Unit</p> |
| 18 |  | <p>(12602)</p> <p>Shuttle Valve (OR Valve)</p> |  <p>1 Unit</p> |
| 19 |  | <p>(12603)</p> <p>One Way Flow Control Valve / Throttle Valve</p> |  <p>1 Unit</p> |
| 20 |  | <p>(12604)</p> <p>Quick Exhaust Valve</p> |  <p>1 Unit</p> |

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| 21 |  | <p>(12701)</p> <p>Quick Coupler Plug</p> | <p>6 Units</p> |
| 22 |  | <p>(12702)</p> <p>T-Joint</p> | <p>3 Units</p> |
| 23 |  | <p>(12704)</p> <p>Hose Diameter : 4 mm Length : 5 m</p> | <p>1 Set</p> |

Electro-Pneumatics Components

| No | Component | Description | Symbol |
|----|---|---|--|
| 1 |  | <p>(13301)</p> <p>3/2 Way Single Solenoid / Spring Return Valve (24 VDC) (N.C.)</p> |  <p>1 Unit</p> |
| 2 |  | <p>(13303)</p> <p>5/2 Way Single Solenoid / Spring Return Valve (24 VDC) (N.C.)</p> |  <p>1 Unit</p> |
| 3 |  | <p>(13304)</p> <p>5/2 Way Double Solenoid Valve (24 VDC) (N.C.)</p> |  <p>1 Unit</p> |
| 4 |  | <p>(13305)</p> <p>Electrical Roller Limit Switch (N.O. + N.C.) Switch: Left x 1, Right x 1</p> |  <p>1 Unit</p> |

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| 5 |  | <p>(13401-01)</p> <p>Relay (24 VDC)</p> <p>4 Contacts: N.C. & N.O.</p> |  <p>3 Units</p> |
| 6 |  | <p>(13402-01)</p> <p>Timer (24 VDC)</p> |  <p>1 Unit</p> |
| 7 |  | <p>(13501)</p> <p>Electrical Push Button Module</p> <p>Contacts : N.O. x 1, N.C. x 1</p> |  <p>1 Unit</p> |
| 8 |  | <p>(13502)</p> <p>Electrical Push Button Module</p> <p>Contacts : N.O. x 2</p> |  <p>1 Unit</p> |
| 9 |  | <p>(13503)</p> <p>Electrical Push Button Module</p> <p>Contacts : N.C. x 2</p> |  <p>1 Unit</p> |
| 10 |  | <p>(13504)</p> <p>Electrical Selector Switch Module</p> <p>Contacts : N.O. x 1, N.C. x 1</p> |  <p>1 Unit</p> |

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| 11 |  | <p>(13505)</p> <p>Power Diodes (1 X 2)</p> |  <p>2 Units</p> |
| 12 |  | <p>(13601)</p> <p>Indicator Lamps (1 X 2)</p> |  <p>1 Unit</p> |
| 13 |  | <p>(13602)</p> <p>Buzzer (24VDC)</p> |  <p>1 Unit</p> |
| 14 |  | <p>(13605)</p> <p>Portable Power Supply Unit (24VDC)</p> <ul style="list-style-type: none"> • Dimensions (W x H x D) : • 215 mm X 150 mm X 80 mm • Power Supply : 24 VDC 1.5A • 4 Pairs of Safety Socket Terminals : 24 VDC x 4 | <p>1 Unit</p> |
| 15 |  | <p>(13801)</p> <p>Stackable Test Lead Set</p> <ul style="list-style-type: none"> - Diameter : 4 mm - 5 Colors Coded (Red, Yellow, Blue, Black & Green) | <p>1 Set</p> |
| 16 |  | <p>(13901)</p> <p>Silent Oil-Less Air Compressor</p> <ul style="list-style-type: none"> • Displacement 3cfm • Working pressure: 7kg/cm² (7 bar) • 0.5HP 650RPM electric motor 240V 50Hz, 1 phase | <p>1 Unit</p> |

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| 17 |  | <p>(1500-800-3D)</p> <p>Experimental Work Table</p> <ul style="list-style-type: none">• 5' Heavy Duty Desktop• Complete With Castor Wheel With Lock• 3 Layer Drawer• Dimension:• Length : 1500mm• Width : 800mm• Height : 850mm | 1 Unit |
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Note: Due to products continuous development process, layout and specification may change without prior notices.