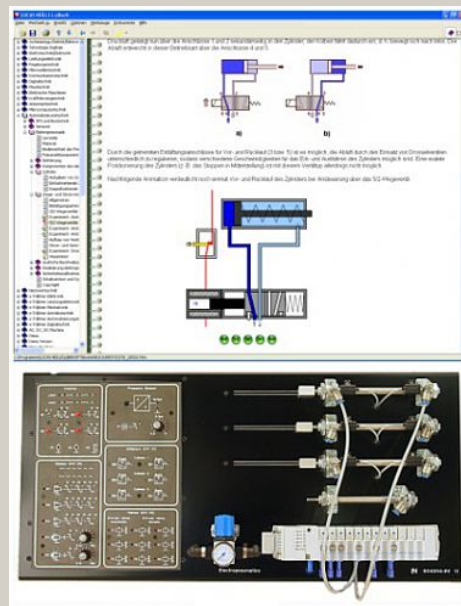


Item No.: SO4204-8V

Course - Automation Technology 8: Pneumatics/electropneumatics

Includes

- Experiment board with:
- 1 Single-action cylinder with return spring
- 3 Double-action cylinders with displacement sensor and end-position initiators
- 7 Throttle return valves
- 1 Compact solenoid valve panel
- 3 5/2-port electrically operated directional control valves with return spring
- 3 5/2-port directional control valves operated electrically at both ends, pulse valve
- 3 Displacement sensors for double-action cylinders
- Relays plus operating and monitoring controls for designing connection-controlled programmable logic controllers
- Virtual relays plus operating and monitoring controls for designing programmable logic controllers with the course software
- Integrated microcontroller for measurement and control
- 1 Pressure sensor
- 1 Pressure monitor
- 1 Time-delay relay with adjustable delay pick-up
- 1 Time-delay relay with adjustable delay release



Course contents

- Fundamentals of pneumatics and electro-pneumatics
- Pneumatic and electrical circuit diagrams
- Single and dual direction cylinders
- Holding element control
- Command variable control
- Function of various valves
- Basic circuits using AND/OR gates
- Basic circuits with latching
- Path-dependent control

- Recording path/timing diagrams
- Time dependent control with delay pick-up and release
- Sequence control
- Connection-controlled programmable logic controllers
- Programmable logic controllers
- Course duration: 8 h approx.