

Product Name :
Electro Pneumatic Trainer

Product Code :
NE-CNC-LAT50



Description :

Electro Pneumatic Trainer

Technical Specification :

Electro Pneumatic Trainer.

List of Experiments:1. Operation of Single Acting Cylinder with 3/2 Way DC Valve

2. Operation of Double Acting Cylinder with 5 /3 way DC Valve

3. Speed Control of Pneumatic Cylinder with Flow Control (Meter In)

4. Speed Control of Pneumatic Cylinder with Flow Control (Meter Out)

5. Operation of Single Acting Cylinder with AND GATE and 3/2 Way DC Valve

6. Operation of Pneumatic Motor with Speed Regulation

7. Operation of Pneumatic Motor with AND GATE and 3/2 Way DC Valve

8. Sequencing of Double Acting Cylinder with Pneumatic Motor

9. Study of Quick Exhaust Valve

10. Study of Vacuum Clamp
11. Picking and placing of Wooden Block with Vacuum clamp
12. Two Cylinders in Series
13. Two Cylinders in Parallel
14. Operation of Single Pilot Operated 5/2 Way DC Valve
15. Operation of a double acting cylinder using 5/2 way double pilot valve
16. Two step Speed Control of Double Acting Cylinder
17. Two step Speed Control of Pneumatic Motor
18. Introduction of Relay and Contactor
19. Introduction of Proximity Sensor, Capacitive Sensor, photoelectric sensors and Limit switch
20. Operation of Single Acting Cylinder with single solenoid valve
21. Automatic Cycle of Double Acting Cylinder
22. Continuous Operation of Double Acting Cylinder with double solenoid valve
23. Double acting cylinder operated by triggering control valve momentarily
24. AND GATE Operation with Electrical switches to operate Double Acting Cylinder with Single Solenoid Valve
25. OR GATE Operation with Electrical switches to operate Double Acting Cylinder with Single Solenoid Valve
26. NOR GATE Operation with Electrical switches to operate Double Acting Cylinder with Single Solenoid Valve
27. NAND GATE Operation with Electrical switches to operate Double Acting Cylinder with Single Solenoid Valve
28. Introduction of Pressure switch
29. Operation of Double Acting Cylinder with pressure switch and one Proximity Sensor
30. Operation of Double Acting Cylinder with Solenoid Valve and ON Time delay as well as OFF Time delay
31. To Execute Specified Cycles of Double Acting Cylinders with Counter
32. Introduction Programmable Logic Controller Review
33. Timer Instructions in PLC
34. Counter Instructions in PLC
35. Latching and Comparison Instructions in PLC

- 36. Time-Delay Control of Pneumatic Actuators
- 37. Counting of Pneumatic Actuator Cycles
- 38. PLC-Controlled Clamp and Work System
- 39. Controlling Number of Rotations of Pneumatic Motor with PLC
- 40. Designing a PLC-Controlled Punching Press
- 41. Sequencing of cylinders: A+, A-, B+,B- with PLC
- 42. Sequencing of Cylinders: A+,B+, (A-B-) with PLC
- 43. Sequencing of Cylinders: (A+B+), (A-B-) with PLC
- 44.
Sequencing of Cylinders & Pneumatic Motor. Cycle is: Cyl. A
Extends, Cyl. B Extends, Motor On, After 20 Seconds, Both Cyl. retract
simultaneously. A+, B+, MON , Delay 20 Sec, (A-B-)
- 45. Automatic Clamping of the Job with Double Acting Cylinder then only
Pneumatic Motor (Spindle Motor) starts

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