

**PLC TRAINING SYSTEM WITH BELT  
CONVEYOR APPLICATION**

MODEL: BSP02-I



**FEATURES**

- Robust and modular construction
- Easy and versatile operation
- Self contained system with complete instrumentation
- Prepares trainees for demands of industry
- Electro mechanical system with PLC control

**DESCRIPTION**

This trainer is designed for students to get familiarize with real life factory automation system. Operation and control of a Conveyor is demonstrated. Various electro-mechanical components are controlled by a PLC. Control of conveyor, Positioning of components on various location, DC Motor operation, gear drive, etc are demonstrated. The equipment consists of Conveyor belt, sensors, Industrial Controller (PLC), etc.

### INSTRUCTION MANUAL

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Self explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises are also included in the manual.

### EXPERIMENTAL CAPABILITIES

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- Study of various types of sensors like proximity sensor, encoders, limit switches
- Study of electrical drive and controls
- Programming of PLC
- Study of PLC and its real life applications
- Latches and PLC Programme editing
- Timer based control of conveyor
- Study of up-down counter
- Advance use of sequencing
- Fault finding and troubleshooting

### COMPONENTS

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1. Conveyor Belt – DC Motor driven, 1 No.
2. Proximity Sensors, 6 Nos.
3. Single acting, spring return pneumatic cylinder, 1 Nos.
4. Pneumatic solenoid valve, 1 Nos.
5. Power supply and interface
6. PLC with cables
7. Software
8. Structure
9. Wiring
10. FRL

### OPTIONAL ADDITIONAL

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- Compressor

### SERVICES REQUIRED

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1. Compressed air
2. Electric supply

## NiYo Engineers

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1. Since research and development is an on-going activity, the specifications mentioned herein are subject to change without notice
2. Photographs are indicative only.