

BSP02.xls  
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## **PLC BASED LIQUID MIXING TRAINER**

**MODEL: BSP02-B**



### **FEATURES**

- Robust and sturdy construction
- Easy and versatile operation
- Self contained system with complete instrumentation
- Incorporates standard industrial components

### DESCRIPTION

The trainer specially designed to teach and familiarize students with PLC application especially metering and mixing. Fluid from a storage tank is pumped to three different tanks in a metered quantity controlled via solenoid valves. There are level switch that monitors the level. The fluid from the three tanks can be mixed together in the process tank that has a stirrer and switches. All the tanks are transparent, so the conveying and mixing processes are clearly visible.

### INSTRUCTION MANUAL

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

### EXPERIMENTAL CAPABILITIES

- Study of level switch
- Study of solenoid valve
- Programming of PLC
- Study of PLC and its real life applications
- Latches and PLC Programme editing
- PLC Application of Liquid mixing process
- Advance use of sequencing
- Fault finding and troubleshooting

### COMPONENTS

1. Sump tank, 1 No.
2. Supply Tank, 3 nos.
3. Process Tank, 1 No.
4. Level switches, 5 Nos.
5. Centrifugal pump, 1 Nos.
6. Solenoid valve, 1 Nos.
7. Power supply and interface
8. Piping
9. Structure
10. Wiring

### OPTIONAL

1. PLC with PC interface cable
2. PLC Trainer BSP02

### SERVICES REQUIRED

1. Electric supply 230 V AC, 50 Hz
2. Water with drain arrangement

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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.