



**PLC based Linear Bottle Filling Plant (PCST – 10)**

The **PLC based Linear Bottle Filling Plant (PCST – 10)** gives an idea regarding usage of Programmable Logic Controllers in industrial application.

**Technical Specification-**

No.	Item Name	Technical Specifications
1	PLC-	Siemens Logo (8 DI/4 DO) / Equivalent, Actual Plant I/O: Digital Inputs- 4 , Digital Outputs- 2
2	Storage Tank-	8''(L)×8''(W)×10''(H)
3	Motor-	230V AC Single phase, Bi-directional, 30 RPM, 20 Kg/cm <sup>2</sup>
4	Level Switch-	Float operated, Float Material: SS304, Switching voltage: 230 VAC/200 VDC. Switching Current: 2A, Switch Action: Reversible. Weight: 315 Grams
5	Indicating Lamps-	4 nos. 24 VDC Operated
6	Solenoid valve-	24V DC, ¼'' size.
7	Conveyor Belt-	100 mm × 2310 mm, Green
8	Coolant Pipe-	¼'' Connection, 1' Length
9	Proximity Sensors-	Type: Inductive, 3 wire, Diameter: 18 mm, Sensing Distance: 5 mm.

**Features-**

- ❖ Compact Ergonomic Design.
- ❖ User Friendly, Self Explanatory Systems.
- ❖ Leak proof Safety Measures, sturdy piping & Robust Construction.
- ❖ Enhanced Electrical Safety Considerations.
- ❖ Training Manuals & mimic Charts for Operation Ease.
- ❖ M.S. powder coated cubical plant with standard Instrument Mountings.
- ❖ Inbuilt Safety Measures to avoid improper usage.
- ❖ Computer Interface (**Optional**).
- ❖ PLC with 8 DI/DO & PC-PLC communication cable (**Optional**), standard Program.

### Range of experiments-

- ❖ Study of PLC programming.
- ❖ Demonstration of bottle filling plant
- ❖ Study of application of solenoid valve, level switches and proximity switches.

### System Components-

- ❖ Conveyor system with motor for movement of bottle.
- ❖ Proximity sensor for sensing bottle positions.
- ❖ Liquid filling Operation.
- ❖ Bottle count operation.
- ❖ Solenoid valve for control of liquid filling.
- ❖ Control panel for visual indication of process.
- ❖ Computerized control system trainer (optional).

**System Dimension-** 4.5 Ft. (L) X 1 Ft. (W) X 2 Ft. (H)

### Services Required-

- ❖ Electric Supply of 1 $\phi$  230 VAC
- ❖ Water supply and drainage arrangement.

### Note:

All descriptive matter and illustrations are intended to give only a general idea of the equipment Detailed specifications may be altered at the company's discretion without any notice.

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