

**SAP E&C PLC BASED BOTTLE FILLING PLANT  
(PCST 10) COMPUTERIZED (OPTIONAL)**



PLC Based Tabletop bottle filling plant gives an idea regarding usage of Programmable Logic Controllers in industrial application

**Technical Specification: -**

- ❖ PLC: - Allen- Bradley / Equivalent.  
Actual Plant I/O:  
Digital Inputs: 4  
Digital Outputs: 2
- ❖ Storage Tank: - 8''(L)×8''(W)×10''(H)
- ❖ Motor: - 230V AC Single phase, Bi-directional, 30 RPM, 20 Kg/cm<sup>2</sup>.
- ❖ Level Switch: - Float operated,  
Float Material; SS304  
Switching voltage: 230 VAC/200 VDC.  
Switching Current; 2A  
Switch Action: Reversible.  
Weight: 315 Grams
- ❖ Indicating Lamps: - 4 nos. 24 VDC Operated.
- ❖ Solenoid valve: - 230V Single phase, ½'' size.
- ❖ Conveyor Belt: - 100 mm × 2310 mm, Green.
- ❖ Proximity Sensors: - Type: Inductive 2 wire,  
Diameter: 18 mm,  
Sensing Distance: 5 mm.

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### 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, standard Program.

### System Details:

- ❖ 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.
- ❖ Digital Input- 4 no.
- ❖ Digital Output- 2 no.
- ❖ PLC with 8 DI/DO Configurations.
- ❖ Computerized control system trainer (optional).

### Range of Experiments:

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

**System Dimensions:** 4.5 Ft. (L) X 1 Ft. (W) X 2 Ft. (H)

### 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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