

SAP E&C PLC BASED WATER LEVEL CONTROL MODULE (PCST 12)



PLC Based Water Level Control Module gives an idea regarding the usage of Programming Logic Controllers in an industrial environment; it considers an example of Level Control Process.

Technical Specification: -

- ❖ PLC: - Allen-Bradley / Equivalent
Actual Plant I/O:
Digital Inputs: 3
Digital Outputs: 2
- ❖ Level Tank: - Material: Transparent acrylic
Dimension: 150 (L) mm×150 (W) mm×400(H) mm
- ❖ Sump Tank: - Material: Stainless Steel, 2 mm thick/P.P 5mm thick
Capacity: 30 liters,
Dimension: 1ft (L) ×1ft (W) ×1 ft (H).
- ❖ Fractional HP Pump: - 230V AC Single-phase, Vertical, SS body.
- ❖ Level Switch: - Float operated,
Float Material: SS304
Switching voltage: 240 VAC\200 VDC
Switching Current: 2A
Switch Action: Reversible
Weight: 315 Gms
- ❖ Indicating Lamp: - 24 VDC Operated.
- ❖ Solenoid valve: - 230V Single phase.½” size, Vertical mounting.

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SAP Engineers & Consultants, Kothrud, Pune-411 038. Ph-(020)25384737

Features: -

- ❖ Turnkey system.
- ❖ Two line display on PLC unit for programming.
- ❖ Sump tank (5 mm PVC FOAM SHEET) with pump for recirculation Of water: 1 Ft × 1 Ft ×1 Ft.
- ❖ Transparent acrylic level tank (6''×6''×16'', 5 mm thick.)
- ❖ Side mounted miniature level switches (3 no.) for water level position Inputs to PLC unit.
- ❖ Solenoid valve & pump control from digital outputs on PLC (2 no.)
- ❖ Ms Powder coated tabletop frame containing water level module.
- ❖ I/P-O/P LED indication on front panel.
- ❖ PC interface facility: PC-PLC CABLE.
- ❖ Control panel for visual indication of process.
- ❖ Necessary I/P- O/P simulating devices.
- ❖ Ladder diagram programming facility on PC.
- ❖ Electrical control panel for simulation of digital inputs.
- ❖ Front panel for display of digital output status.
- ❖ PLC with 8 DI/DO Configurations & PC-PLC communication cable, standard Program.
- ❖ Computerized control system trainer (optional).

PLC MAKE: Allen-Bradley/OMRON/Equivalent.

Services Required:

- ❖ 230 V AC 50 Hz Single Phase Supply.
- ❖ Water Supply & 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 notice.

Manufactured / Marketed by	
SAP ENGINEERS AND CONSULTANTS	
Regd. Off.	: Shop No. 26, 27 Srushti, S. No. 82/11+12++33+34, Eklavya Clg Rd (D. P. Road), Kothrud, Pune- 38
Telephone	: (020) 25384737
Mobile	: (+91) 9422088946, 9552475082
Fax	: (020) 25383544
Email	: pravinsdeode@vsnl.net
Website	: www.sapengineers.com / www.sapengineers.co.in

