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Product Name :

PLC Process

Product Code :

SLE/EE/06



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Description :

PLC Process (Product Code: SLE/EE/06) is a two-tank water-circulation rig used to practise programmable logic controller (PLC) sequencing and level control of a small process plant in engineering and technical-institute laboratories. Students wire its float switch, tank level sensors, pulsed flow sensor, solenoid valves and variable-speed pump into control exercises as water moves from a reservoir to an upper tank, down to a lower tank and back. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Tanks	Two transparent tanks, mounted one above the other
Water path	Reservoir ? upper tank ? drains down to lower tank ? back into the reservoir
Reservoir monitoring	Float switch monitoring the water level in the reservoir
Tank level sensing	Two level sensors in each tank, measuring maximum and minimum water levels
Flow sensing	In-line flow sensor with pulsed output; pulse frequency proportional to flow rate, number of pulses proportional to volume
Pump	Variable-speed pump transferring water from the reservoir into the upper tank; pump control is on/off, with a manual control to set the speed
Valves	Solenoid valves that can be individually opened or closed to control and redirect the movement of water
Product code	SLE/EE/06
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the PLC Process Rig Used For?

The rig gives students a real, visible plant to automate. A typical exercise starts with the float switch confirming there is water in the reservoir; the program then switches the pump on to fill the upper tank and uses that tank's maximum-level sensor to decide when to stop. Opening a solenoid valve lets the water drain to the lower tank, whose own pair of sensors tells the program when to return it to the reservoir.

Because the pump is switched on or off while its running speed is set by hand, learners can compare fill times at different speeds and use the pulse count from the flow sensor to totalise the volume moved. The rig suits ladder-logic courses, instrumentation practicals and final-year projects, and sits comfortably among other engineering lab equipment in India's polytechnics and engin

OEM