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Product Name :

Pressure Process Training

Product Code :

SLE/EE/08



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Description :

Pressure Process Training (Product Code: SLE/EE/08) is a water-based pressure-controltrainer used to teach closed-loop regulation with industrial-style instrumentation in engineeringand instrumentation laboratories. Students set up an industrial controller with auto-tune thatdrives a pneumatic control valve through a current-to-pressure converter, while a gauge pressure transmitter feeds back the pressure in an accumulator. **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, builds the system at its own factory in Ambala, India.

Key Details

Parameter	Detail
Reservoir	Holds the clean water used for experiments
Pump	Three-speed pump
Controller	Industrial controller with auto-tune
Final control element	Pneumatic control valve regulating the flow of water
Signal conversion	Current-to-pressure (I/P) converter
Process vessel	Pressure accumulator
Measurement	Gauge pressure transmitter measuring accumulator pressure and giving feedback to the controller
Recording	Two-channel chart recorder
Product code	SLE/EE/08
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Pressure Process Trainer Used For?

Before an experiment, students fill the reservoir with clean water and prime the system. They then set the controller to regulate the flow of water through the pneumatic valve; as the valve opening changes, so does the pressure in the accumulator, which the pressure transmitter reports back to the controller to close the loop.

Because the trainer combines an industrial controller, an I/P converter and a pressure transmitter, it prepares learners for the loop-checking and tuning tasks they will meet on real plant. The two-channel chart recorder lets a class capture two signals together — for example setpoint and measured pressure — so manual tuning can be compared with the controller's auto-tune result. It is well suited to ITIs, polytechnics and colleges building up vocational training lab equipment for instrumentation courses.

OEM Manufacturer

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