



## Control Lab Equipment - Level Control Loop Trainer Model (ULP-24P & ULP-24C)



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Unitech's Level Control Setup comprises of acrylic measuring tank fitted with Level transmitter, control valve, I to P converter, source tank with water pump and necessary flexible piping for water circulation. The system is mounted on a table top powder coated metal frame. Level transmitter is of capacitance or DPT type sensor. The electronic panel comprises of ADC and DAC card with RS-232 interfaces.

Software is provided for experimentation, Control action like PD, PI, PID can be conducted. Online data acquisition, trend plot are the salient feature of the system. Off line analysis, Printing of data graph can be done easily. The software is compatible with windows XP operating system. Detail Manual will be provided to conduct experiment.

## SPECIFICATION

Level Sensor	: Pressure Transmitter (ULP-24P) / Capacitance type (ULP24C)
Measuring Tank	: Acrylic tank of 30cm length(5 liters capacity)
Water Circulation	: FHP pump with necessary piping (Flexible type)
Source Tank	: SS Tank of capacity 20 liters (approximately)
Control Valve	: 1/2" Globe Valve (Linear) 15mm Stem Travel
Actuator	: Pneumatic Actuator input 3 to 15 PSI
I to P Converter	: Input 4-20mA output 3-15 PSI
PC Interface card	: 16 Bit ADC (8 Ch) with 12 bit DAC interfaced with PC Through RS-232/ USB Port
Power Supply	: 230V 50 HZ
Pressure Gauges	: Bourdone Pressure Gauge 0 to 100 PSI -1 No., 0 to 30 PSI - 1 No

Manual bypass Values	: Manual 1/2" Gate Valve
Flow Measurement	: Rotameter (1500 LPH)
Mounting	: Mounted on a Powder Coated metal frame (Approx.650 x 500 x 750. L x B x H)
Controller	: PC based dedicated PID Software to control the process, control Action P,PI,PID. Trend plot with on line and off line, Printing and analysis
Accessories (Optional)	: - Digital Level Indicator with Retransmission output - Air Compressor - Personal computer with latest features