

Features

- The trainer is designed to introduce, demonstrate and teaching level process control using PLC.
- Can be interfaced with any PLC type.
- Process and reservoir tank made from stainless steel.
- Process tank equipped with drain pipe for level overflow.
- Equipped with float switch sensor and pressure sensor for level detecting.
- Equipped with DC submersible pump.
- Inputs and outputs are equipped with robust 4mm sockets for easy connection.
- Completed with comprehensive experiment manual book to guide student step by step in conducting experiment.

Covered Topics

- DE13001E Introduction to Level Process Control System Trainer
- DE13002E Level Sensor
- DE13003E Output on Level Process system
- DE13004E Level process Control
- DE13005E PID Level process Control

Specification

- **Process Tank**
 - Capacity : 6 liter
 - Diameter : 168 mm
 - Height : 420 mm
- **Reservoir Tank**
 - Capacity : 20 liter
 - Dimension : (L)330 x (W)460 x (H)170 mm
- **Manual Valve**
- **Solenoid Valve**
 - Input voltage : 24 V DC
 - Valve : Normally close
- **Pump**
 - Input voltage : 12 V DC
 - Current : 2.1 A
 - Speed : Adjustable
 - Type : Submersible
- **Float Switch**
 - Type : Magnetic float switch
 - Contact : SPST
- **Pressure Sensor**
 - Type : Pressure membrant
 - Input voltage : 5 V DC
 - Output : Frequency
- **Power Supply, Pump, Valve & Sensor Terminal**
 - Input voltage : 220 V AC /50 Hz
 - Output voltage : 24 V DC, 2.1 A
 - Pressure sensor driver
 - Top and bottom setting
 - Output voltage : 0 – 10 V DC
 - Output current : 4 – 20 mA
 - Bottom float switch terminal
 - Top float switch terminal
 - Solenoid valve terminal
 - Motor driver
 - Selectable input : Internal 0-10 V, ON/OFF (internal 0 – 10 V) and external 0 – 10 V
 - Output : 0 – 12 V DC
 - Relay
 - Coil voltage : 24 V DC
 - Contact : SPDT
 - Current : 0.25 A
 - Sensor & solenoid terminal
 - Motor terminal
 - USB serial port terminal
- **Table**
 - Dimension : (L)1236 x (W)735 x (H)800mm
 - Top table material : MDF with Vinyl coated

Level Process Control System Trainer

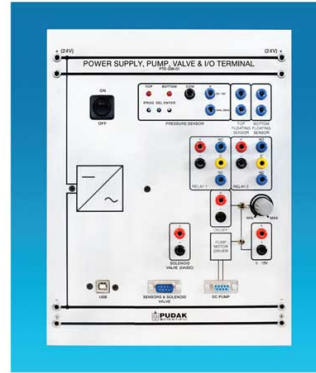
PT 121005



Training Panel System

PT121005 Level Process Control System Trainer consists of

Cat. No.	Description	Qty.
PT 121005	Level Process Control System Trainer	1 set
PTE 041-01	Power Supply, Pump, Valve & Sensor Terminal	1 pc
KAL 99/10-75	Connecting Lead 75 cm, Black	20 pcs
KAL-99/20-75	Connecting Lead 75 cm, Red	20 pcs
FLS 20.02/097	Bridging plug	10 pcs
	Sensor connecting cable	1 pc
	Motor connecting cable	1 pc
	CD XY Plotter software	1 pc
	Experiment Manual Book (for Omron PLC)	1 pc



Power Supply, Pump, Valve & Sensor Terminal
PTE 041-01

Required Equipment (not included)

Cat. No.	Description	Qty.
PT 970101A	Advanced PLC Trainer	1 set

or other PLC with specification as below:

- Inputs and outputs should be 24 V DC system.
- Minimum input number : 5 inputs.
- Minimum output number : 4 outputs.
- Minimum Analog input : 1 input.
- Minimum Analog output : 1 output.

Required Computer (not included)

- Operating minimum : Window XP.
- USB port.
- CD ROM.



Reservoir Tank



Level process control experiment (PLC, frame and Laptop not included).



Pump, valve and sensor terminal

Specifications and illustrations are subject to change without prior notice