

PLC TRAINER KIT

The PLC Trainer Kit consists of a Siemens Simatic S7-200 series PLC with the components mentioned below. In addition to the PLC, experimental modules as mentioned below shall be provided to conduct experiments on actual process control.

Model No.	CT-PLCT
Make:	Core Technologies
CPU:	Siemens Simatic S7-224
Power Supply:	5A
Modules:	Analog I/O module with 4 AI & 1 AO Digital Input: 24 Digital Output: 16
Programming Software:	STEP 7, MICROWIN 4.0
Accessories:	PC/PPI Cable



Experimental Modules

1) *Temperature Control*

A heater is controlled to maintain the temperature of water in a beaker. The temperature is measured using a RTD.

2) *Stepper Motor Control*

A stepper Motor shall be interfaced with the PLC using appropriate drive circuitry to demonstrate the working of the stepper motor. The speed and direction can be controlled using the software provided.

3) *Pressure Control*

The pressure of a chamber shall be maintained using a pressure sensor as input and a solenoid valve as an actuator to demonstrate a pressure control loop.

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