

**Product Name :**  
Didactic Process Control Pilot Plant

**Product Code :**  
CE785



**Description :**

Didactic Process Control Pilot Plant

**Technical Specification :**

Didactic Process Control Pilot Plant

This pilot plant allows the study of the continuous process control, based on the typical four variables, that is, Pressure, Temperature, Flow and Level. This plant is made of real industrial and commercial components, easily identified by the student and commonly utilized in industrial plants.

Besides the indicators and sensors, the plant includes transmitters that convert the physical signals to electric signals, to be processed by the PLC and/or the PID controllers. Additionally, the plant has a terminal bus, where all the electrical signals are available for an external controller.

This plant is basically composed of:

The main aluminum structure with rollers for easy moving. Dimensions: 2400x800x1700 mm.

The control panel with PLC and all the electric components for plant control and study

Two pressurized vessels (one made in Acrylic and another made in stainless steel)

A centrifugal recirculation pump controlled by a frequency inverter that is on the PID network

A heater and heat interchanger

Temperature, pressure, flow and level sensors

Directional valves

Electrical power controller

A PID controller

Technical Features:

Vessel capacity: 120 liters

Recirculation pump with 20 to 50 liters/min

Temperature sensor type PT100 with intelligent transmitter  
Different types of level sensors  
Diaphragm type pressure sensor regulated at 500 mmH<sub>2</sub>O  
Rotameter type flow sensor  
Requirements  
Input power: three-phase  
Compressed Air: 6Kgf/cm<sup>2</sup>  
Water input and output connections  
PC station with Windows operating system

## Naugralabequipments

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