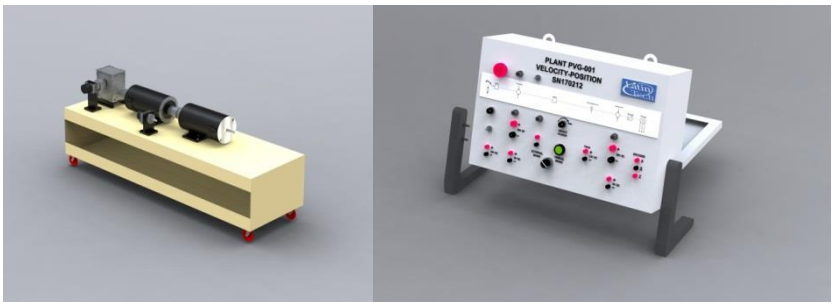
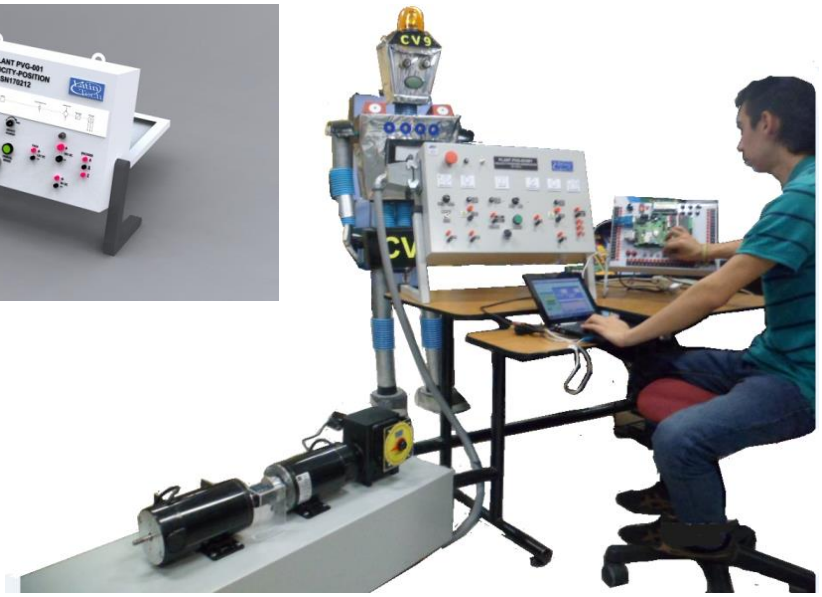
PVG-01

Speed, Position and Generation Plant





This control la is now more real.

Now students from different engineering background can make control labs from more realistic perspective: Our Speed, Position and Generation plant is of 250 watts.

Three different control practices.

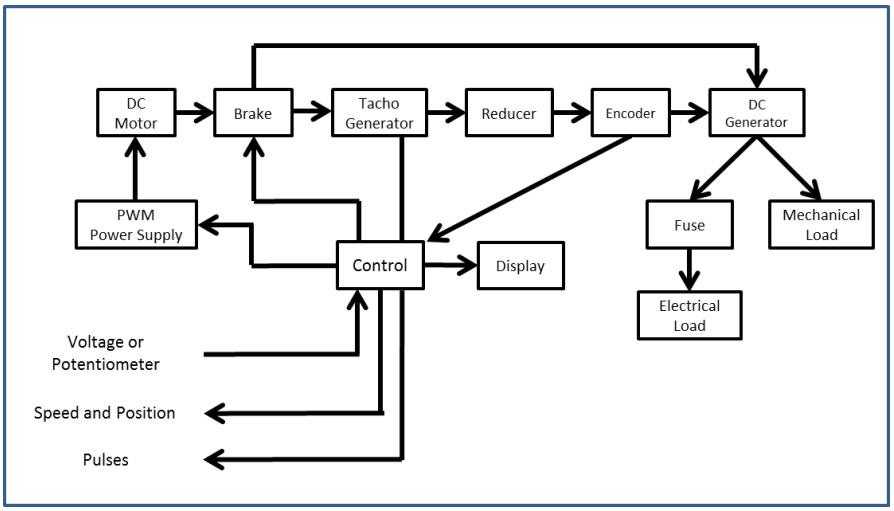
The system allows to work position control: 0-360 degrees, Speed control: 0-1730rpm/60rpm, Voltage generation: 0-90VDC. For the visualization there is a front indicator.

PC or stand-alone control.

You can use a PC and your favorite control software along with signal conditioning boards. You can also use all types of control devices such us micro-controller, PLC, DAQ boards or stand-alone PCs. We offer you our powerful PTS F1616 control trainer for standalone applications where no computer is needed. See features.

Manual or Automatic Operation.

By switching a single selector, the plant can be commuted to operate either in manual or automatic mode. In manual mode the instructor can show the students all the features and desired operation. In automatic mode the student uses all type of control device to perform the control of system.



Special Features

- *DC plant with real load connection up to 2,7 Amps!!*
- *Generator and tachogenerator feedback.*
- *High resolution encoder (1000 ppr) with zero output.*
- *Additional shaft for external mechanical loads*

Concepts and practices you can make

1) *Resolution y accuracy*
2) *Error calculation*
3) *Feedback information*
4) *Open loop control*
5) *Feedback control*
6) *Signal scaling*
7) *Control design and equations*
8) *P, PI, PID control*
9) *SISO control systems*
10) *PC control*
11) *Stand-alone control*
12) *Waveform applications*
13) *Stability*
14) *Uncertainty*
15) *Disturbances*
16) *Robust control*
17) *Other control techniques*

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Discover and new experience in education and research.

More realistic lab practices.

Others Products

- *Climate change Fitotrón.*
- *Algae Biofuel Pilot Plant.*
- *Mini-Plant Malt/Beer/Soda production plant.*
- *Inverter Pendulum.*
- *Speed, position and generation plant.*
- *PLC trainer (Generic, AB, Simens, e.t.c.).*
- *Solar heating system.*
- *Hydrogen cells trainer.*
- *Solar and Eolic energy trainer.*
- *Water supply plant.*
- *Motor-generator plant.*
- *Drives.*
- *SCADA.*
- *Others didactic process (in preparation)*