

Mini Pilot Production Plants

Bioethanol from Biomass



This plant can be used to determine the energy efficiency of several vegetable products with high starch or sugar content. You can select the biomass to really produce biofuel.

Malt/Beer/Soda Pilot Plant



This is a Real and modular process for multivariable and multipurpose control. An educational experience truly original that nobody forgets: Learn, practice and drink your product.

Biofuel from Algae



Perform research or learn about one of the most important topics of the future. Discover why all the big oil companies are investing on Algae production technology.

Advanced Control

Position/Speed/Generation DC plant



This powerful educational tool allows you to experiment with open or closed control loops for speed and position, but also with the generation of energy and all the principles of the electric car. You can use any control board or system.

PLC Training Stations and DAQ PTS F1616/PTSF888



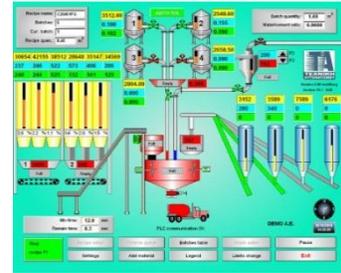
These PLC trainers are loaded with an arsenal of features to help on the PLC and control training. They can be programmed in Ladder or Basic. Several communication ports with multiple protocols are available. Digital and analog inputs and outputs including high speed input channels for encoders, PWM outputs for direct control of Stepper motors and motion control. Potentiometer, Display, pushbuttons and switches. The software allows simulation as well.

Inverted Pendulum



The concept of equilibrium at its highest expression. You can develop the creative intelligence by having the students developing all types of solutions and control methodologies. Compatible with the PTS training stations or any other control device.

SCADA



One USB key with Run-time y Development licenses which has all the software modules (graphs, trends, recipes, etc) included . More than 300 communication drivers can be selected. The student can get a complete simulator for home which last 40 hours.

Instrumentation

Intrumentation Course Level 1



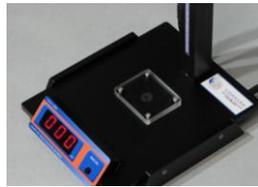
This set includes all the elements to be trained on basics of instrumentation and sensors: transducers, transmitters, measurement, metrology, calibration and control. The elements can be connected and interfaced to our PTS stations. The content has been homologated with most of the courses of several famous world universities.

Physics

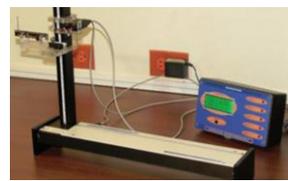
Eight lab experiments for physics



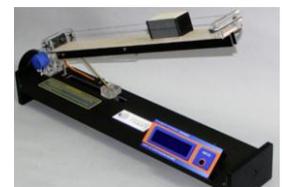
4 Channel
Chronometer



Free fall



Semi-parabolic
Motion



Friction



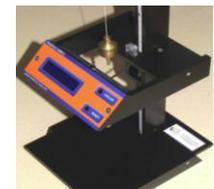
Uniform Circular
Motion



Uniform Linear
Motion



Tilted plane



Simple
Pendulum

Other experiments and levels for physics are available, please let us know about your need.

Energy

Hydrogen Cell Trainer



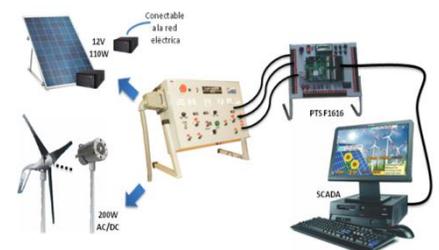
¿How get more efficient motors with less gas consumption? The answer is in the understanding and study of the hydrogen cell.

Solar Heating Training System



Solar heating is a very popular application nowadays because of the environmental advantages. Get trained and learn all the fundamentals of this technological system. Develop and test your own applications.

Solar and Wind Energy Trainer



Discover all the power of the alternative energies and experiment about its efficiency. This system allows students and researchers understand, simulate and use the generated energy.

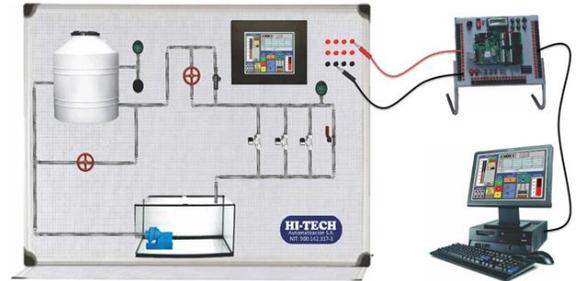
Environment

Climate Chamber- Phytotron



This advanced system is very useful to experiment the effects of Humidity, Temperature and Light on plants and tissues. We can consider it as an Envirotron because it is designed to simulate extreme environmental conditions similar to the ones the world experiences with climate change. Red and Blue lights make the equipment unique in the world.

Water Treatment Plant



Water is a very important resource. Bringing potable water to population is becoming a real need for any city. This training systems helps to understand the concepts of pressure, filtration, quality, collection, waste and transit of water.

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