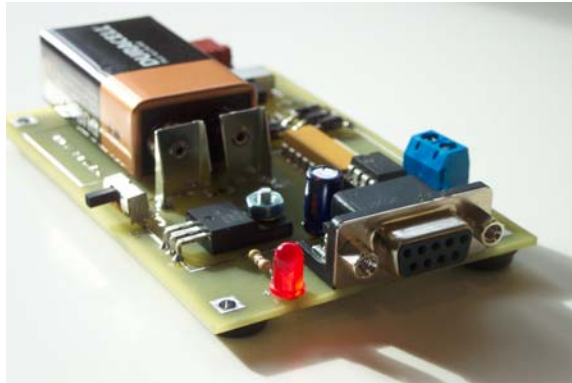
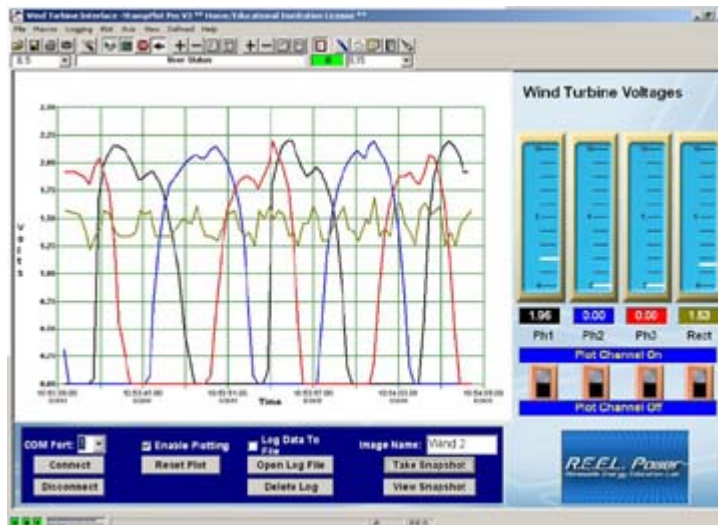




Wind Turbine Interface from LearnOnLine.com

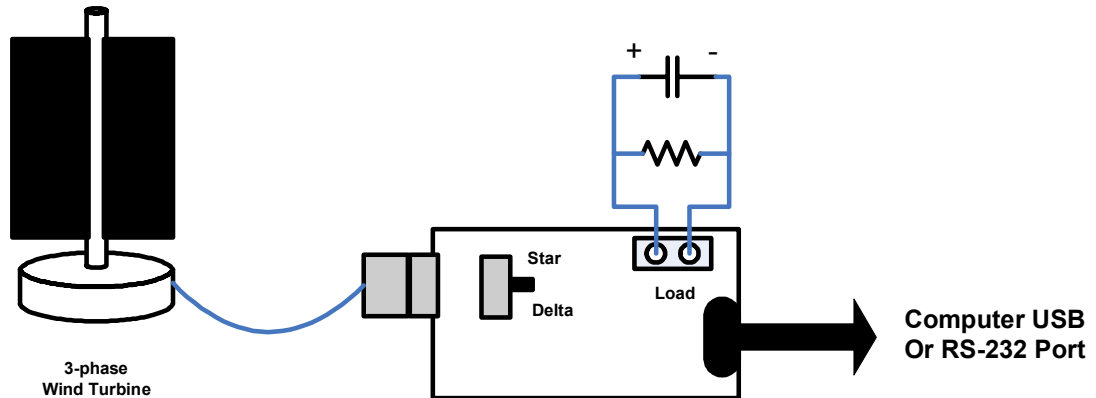


The **Wind Turbine Interface** gives you the ability to demonstrate the capabilities of a commercial **3-phase wind turbine** in model scale, plus allows you to perform meaningful experiments using various loads and coil configurations. The experiments become even more dramatic given that all voltages are plotted in graphic form – not just numbers on a meter. And the graphic plots, like the one here, can be saved on disk and used in student reports or printed out directly. This plot shows the three voltage phases (black, blue, red) plus the rectified DC voltage (green).



With the flip of a switch, students can configure the wind turbine's coils in either Star (more voltage) or Delta (more current) configurations, just as commercial wind turbines are capable of doing. By adding various resistive loads, students can witness how power is consumed – all in real-time graphical form.

Circuit Hookup



Supplied Materials

- Wind Turbine Interface Circuit Board
- 3-Phase Wind Turbine Kit
- 6 foot USB to RS-232 converter cable
- CD-ROM with StampPlot graphics software and User Manual
- 100 ohm resistor load
- 330 uf capacitor filter
- Flat-blade screwdriver

Specifications

- **Star – Delta** switch for changing coil configurations
- 3.8" L x 2.5"W circuit board dimensions
- USB or RS-232 serial interface
- Plots wind turbine's 3-phase voltages and rectified voltage under various loads

Other Required Materials Not Supplied

- 9-volt battery
- Phillips screwdriver
- Pliers
- Table fan
- Windows PC – MACs must have "Virtual PC" software for compatibility

Warranty

LearnOnLine, Inc. warrants its products against defects in materials and workmanship for a period of 90 days. If you discover a defect, LearnOnLine will, at its option, repair, replace or refund the purchase price. Simply contact us at information@learnonline.com.