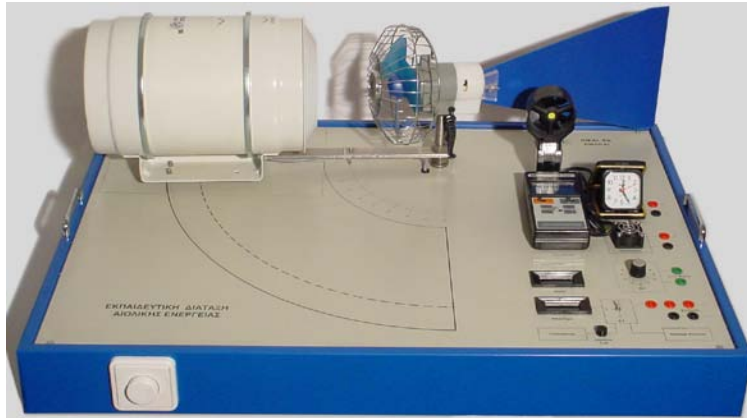


EOLEN 61 | WIND POWER TRAINER



Technical specifications :

The wind power trainer simulates the procedure of producing electrical power from the wind. It gives the student the ability to study and draw conclusions related to the factors that control this procedure. The trainer is of high quality ideal for training with all the safety features in order to be used by the students and by the instructor. The wind power trainer consists of :

1. A wind production system providing various wind speeds adjusted by an electronic circuit (dimmer) and with adjustable wind direction up to 90°.
2. Wind generator that automatically adjusts to the wind direction with the following features : Voltage from 5 V to 10V / Power higher than 0,8 W
3. Measuring instruments : Digital anemometer and digital voltage and current panel meters
4. 2 Ah capacity electrical power accumulator (rechargeable battery) and the relative charger.
5. It also has as a demonstration of the wind energy applications, the following accessories: A watch and a fan.
6. The trainer has also adjustable resistive loads for making the necessary measurements in order to draw the systems characteristic curves.

All the above are permanently fitted in a metal bench top case painted with an electrostatic method that has a layout of the necessary elements (inputs – outputs etc) and safety sockets for the necessary circuit connections.

The wind trainer has also an operation manual that includes as well general instructions for :

- Operation principles of the wind generator.
- Measurement of the produced voltage in relation to the wind intensity and angle.
- Conversion of the produced electrical power in to mechanical power.
- Wind generator production rate - efficiency measurements.