DL WIND-L

Wind Energy

This system provides you with all the answers you need concerning the basics of using wind energy. It discusses different topics, which are necessary for understanding the functions of wind power plants.
The study of how wind force, wind direction or rotor type influences the power output are only some examples of possible experiments.
Both qualitative and quantitative experiments are described in detail in the manual provided with the kit.

COMPONENTS
- Plastic box with hard foam insert
- Wind machine module
- Base
- Potentiometer module
- Wind generator module
- LED-module
- Capacitor module (0,1 F)
- Resistance module
- Set of wind turbines (2, 3 and 4 blades)
- Savonius rotor
- CD with teacher and student manuals

NECESSARY COMPONENTS
- 2 digital multimeters
- 1 power supply
- 2 leads - black 25 cm
- 2 leads - red 25 cm

SOME POSSIBLE EXPERIMENT
- Dependence of the wind power plant on wind speed
- Variation of the generated voltage produced by changing the load
- Efficiency of a wind power plant
- Energy saving
- Energy conversion and use of wind energy
- Analysis of different rotor types
- Characteristics of the wind generator
- Dependence of the wind generator on wind direction