



Wind tunnel with wind turbine, renewable energy, sensors and multimeters

EQ266B

Function

Intended for the study of: Renewable energies. The power of a wind turbine as a function of wind speed. Main components of a wind turbine. The operation of a wind turbine. The electrical generator inside the nacelle. The electrical power of the wind turbine. Electrical power as a function of wind speed in wind turbines. The lower, nominal and higher cutting speeds. The behavior of power as a function of cutting speed. Carrying out electrical measurements for different speeds, with propellers with different blades at the same angle. Comparing the results obtained. Power coefficient of a wind turbine as a function of wind speed. The electrical generator inside the nacelle. Taking measurements with different wind speeds. Comparing the data obtained, etc.

Knowledge areas

Metrology

Key Experiments

