



HELAGO-CZ, s.r.o.
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leXsolar-Wind Professional

Order code: **5501.1406**



Cena bez DPH	2.172,00 Eur
Price with VAT	2.628,12 Eur

Parameters

Subject	Wind and hydropower
Quantitative unit	ks

Wind energy currently covers the highest proportion of renewable energy production. Especially, based on the really fast build-up of new wind power plants, the demand for highly qualified staff is at a very high level. leXsolar-Wind Professional offers you practical oriented experiments for technical training while including interesting basic experiments at the same time. The fields of applications are many and

varied: from vocational school to college level.

Experiments

- Dependency of the distance on wind speed
- Comparison of the start-up speed of Savonius and three-bladed rotors
- Analysis of the generator voltage variation after connecting a consumer
- Analysis of the wind speed behind the rotor
- Energy balance of a wind power plant
- Comparison of Savonius and three-bladed rotors
- Comparison of two-, three-, four-bladed rotors
- Influence of the wind direction
- Influence of the blade pitch
- Influence of the blade shape
- I-V-characteristics and rotational speed of wind power plants
- Rotational speed and power dependent on the wind speed
- Rotational speed and power dependent on the blade pitch
- Rotational speed and power dependent on the blade shape
- Rotational speed and power dependent on the number of blades
- Start-up speed dependent on the blade pitch
- Calculation of the efficiency of a wind power plant

Components

- 1400-13 leXsolar-base unit Professional
- 1400-17 leXsolar-wind machine module Pro
- 1118-03 leXsolar-wind generator module Pro
- 1118-14 leXsolar-Savonius rotor module Pro
- 1118-04 leXsolar-potentiometer module Pro
- 1118-02 leXsolar-motor module Pro
- 2× 1800-01 Resistor module (triple) Pro
- 1800-06 Resistor plug element 33 Ohm
- 3× 1800-04 Resistor plug element 100 Ohm
- 2× 1800-05 Resistor plug element 10 Ohm
- 2105-00 Power supply
- 1400-02 Anemometer module
- 1400-12 leXsolar-blade set
- 2× L2-06-011 Digital multimeter
- L3-03-081 leXsolar DVD Professional
- L2-06-062 R.p.m. counter
- L2-04-066 Safety test lead, red, 25 cm
- L2-04-067 Safety test lead, black, 25 cm
- L2-04-059 Safety test lead, red, 50 cm
- L2-04-060 Safety test lead, black, 50 cm
- 3× L2-05-068 Safety short-circuit plug, with middle socket
- L3-01-073 Aluminum case Wind-Professional with foam inserts

Age: from 16 years