



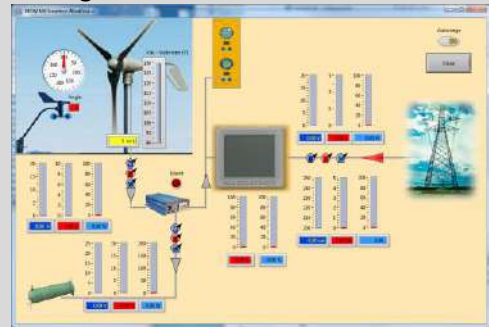
## WIND ENERGY MODULAR TRAINER WITH CONNECTION TO MAINS



**DL WIND-A1G**

Didactic system for the study of the generation of electric energy from a wind turbine and its inlet in the mains network.

The device includes a stepper motor kit to drive the wind generator in absence of wind.



Complete with connecting cables, experiment manual and **software for data acquisition and processing**.

### TRAINING OBJECTIVES

- Identification of the components and association with their function
- Interpretation of diagrams and association with their objective
- Measurement of wind speed
- Analysis of the behavior of the wind turbine
- Assembly of the proposed installations
- Analysis of the operation of the installations once assembled

Average training hours: 8h.

Approx. packing dimensions: 1.11 x 1.11 x 1.12 m.

### MORE AVAILABLE TRAINERS:

#### DL WIND-A1S

Trainer with motor drive for indoor use isolated from mains.

#### DL WIND-B

Wind power trainer with wind tunnel.

### TECHNICAL SPECIFICATIONS

- A wind turbine, 400W, 12Vac.
- Anemometer and wind direction sensor mounted on a stand.
- A supporting frame for the modules.
- A braking resistance, 250 W, 3 Ohm.
- A load module. It includes two mains voltage lamps, dichroic 35W and LED 3W, with independent switches.
- A module for the measurement of: wind speed (m/s), wind direction (degrees), current up to 30V,  $\pm 15A$  (two dc ammeters), voltage up to 30V and power up to 1000W.
- Grid tie inverter.
- An energy measurement module.
- A differential magneto-thermal switch.
- A network distributor.
- A motor kit for driving the wind turbine, composed of a stepper motor and a 300 W power supply.