

**Product Name :**  
Wind Energy Modular Trainer

**Product Code :**  
NLAB-ENGINEERINGLB29004



**Description :**

Wind Energy Modular Trainer

**Technical Specification :**

Wind Energy Modular Trainer

**Training Objectives of Wind Energy Modular Trainer**

- Identification of the components
- Installation and testing of the wind turbine
- Installation and testing of the anemometer
- Connecting the wind turbine and the anemometer to the trainer
- Battery regulating and charging
- Direct current wind energy installation

Alternating current wind energy installation

Complete system for wind energy

#### Technical Specifications of Wind Energy Modular Trainer

A wind turbine, 160W, 12V.

Anemometer and wind direction sensor mounted on a stand.

A supporting frame for the modules.

A battery.

A battery control module, 12V, 32A.

A load module. It includes two 12V lamps, dichroic 20W and LED 3W, with independent switches.

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.

A dc to ac converter module, with sinusoidal output at mains voltage. Average power: 300 W

## Naugralabequipments

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