



Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Wind Energy Modular Trainer With Motor Drive For Indoor Use

**Product Code :**  
LBNY-0005-18400023



**Description :**

**Training Objectives:**

Operating the wind turbine and the anemometer  
Braking in the braking mode  
Braking in the no load operation/open circuit/free spinning mode  
Identification of the components  
Installation and testing of the anemometer  
Installation and testing of the wind turbine  
Battery regulating and charging  
Supplying AC load with wind power and a battery  
Direct current wind energy installation  
Supplying AC load with wind power stored in a battery  
Complete system for wind energy.

**Technical Specification :**

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 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.

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



**Laboratory Instrument India**