

**Product Name :**  
Fundamentals Of Wind Power Plants

**Product Code :**  
DM714



**Description :**

Fundamentals Of Wind Power Plants

**Technical Specification :**

Fundamentals Of Wind Power Plants

Wind power plant with adjustment of rotor blade and yaw angle adjustment

Remote learning: detailed e-learn course on the basics of wind power accessible online

Gearless wind power plant with 3-blade rotor

Generator system with variable speed

Power regulation by means of rotor blade adjustment

Interchangeable rotor blades

Fan with adjustable speed generates required air flow

Wind velocity, rotor speed and yaw angle are measured by sensors

Control and operation via pc with software and by control elements of the experimental unit

Network capability: observe, acquire, analyse experiments at any number of workstations with software via the customer's own network

Software via USB under Windows 10

Technical data:

Wind power plant

~ rotor: 0,3m

Number of rotor blades: 3

Rated electrical power: 6w

Rated wind velocity: 10m/s

Rated speed: 2865min-1  
Designed tip-speed ratio: 4,5  
Rotor blade adjustment:  $-5^{\circ}$  to  $35^{\circ}$   
Weight: 1,6kg  
nacelle: Length x Width x Height: 270x65x90mm  
Generator  
Rated voltage: 12V  
Rated current: 2,02A  
Rotor blades  
3x straight rotor blade profile  
3x optimised rotor blade profile  
Wind tunnel:  $\sim 400$ mm  
Axial fan  
Volumetric flow rate: 6860m<sup>3</sup>/h  
Power consumption: 1,1kw  
Measuring ranges  
Wind velocity: 1 to 15m/s  
Speed: 0 to 4000min-1  
Current:  $\pm 2,02$ a  
Yaw angle:  $\pm 40^{\circ}$   
230v, 50hz, 1 phase;  
With accessories

## Naugralabequipments

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