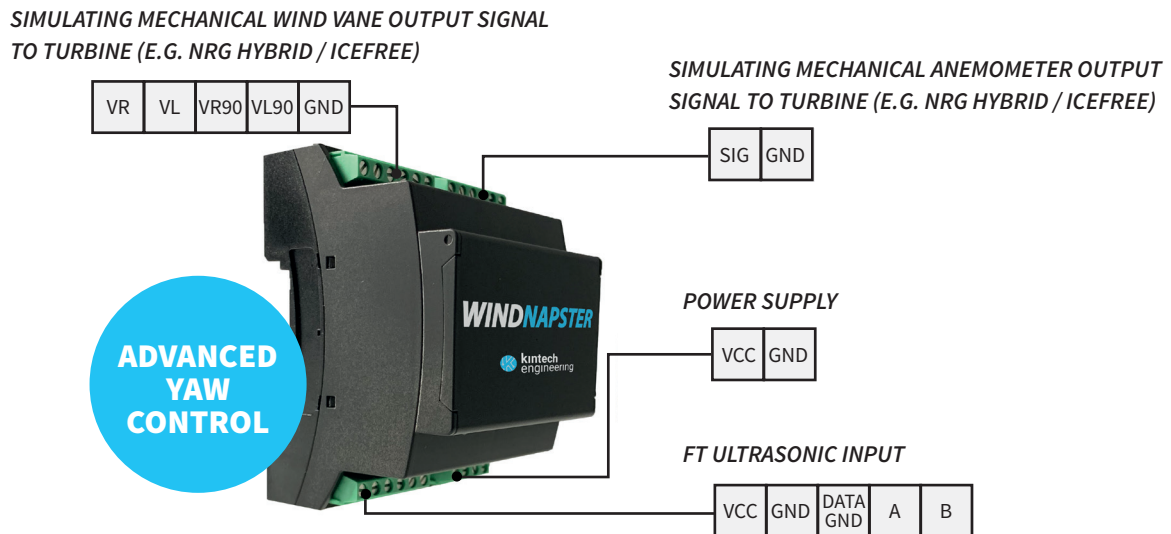


## WIND-NAPSTER | LESS TURBINE DOWNTIME. LESS NACELLE YAW BEARING WEAR.

Wind-Napster imitates the output signal from a mechanical control sensor and enables wind farm owners to retrofit modern ultrasonic sensors from FT Technologies. **Wind-Napster is developed and manufactured by Kintech Engineering** and consists of a DIN rail mounted box that is installed in between the FT ultrasonic sensor and the wind turbine control system.

### WIRING DIAGRAM



#### Protection

3000V galvanic isolation between the Ultrasonic anemometer and turbine control cabinet

#### Mounting

External mounting brackets for DIN rails  
Screw in mounting brackets

**Adjustable Yaw Control** *Ad hoc data filtering according to customer specifications (upon request)*

Adjustable A Frequency of yawing  
Adjustable B Minimum change in wind direction triggering nacelle to yaw

**Power Supply** *Weidmuller Power Supply Unit (Optional)*

6...30V

**Output Signal** *Push Pull*

Signal Level (High) VCC  
Optional Output Signal RS485

#### Power Consumption

25mA @ 24V

### ADVANCED YAW CONTROL

For turbines situated in high turbulence sites, wind direction readings from the nacelle mounted sensor have a tendency to fluctuate very frequently and therefore cause the turbine to yaw more frequently than is required. This frequent yawing causes increased wear to the nacelle bearings, decrease power production and causes increased maintenance costs.

The Wind-Napster unit is placed in between the ultrasonic sensor and the turbine control unit. It allows wind farm owners to manually adjust both the frequency of yawing and the minimum change in wind direction which triggers the nacelle to yaw. On turbulent sites, this will minimize wear on the crucial and expensive main yaw bearings while minimizing maintenance and service cost.