

Fountain Wind Control

The wind control unit provides two stages of fountain wind control.

Front panel controls:

UP/DN Arrows - Sets the stage 1 trip point

LT/RT Arrows - Sets the stage 2 trip point

+/- - Toggles the fountain between OFF, PUMP, and AUTO

The normal mode for the controls is AUTO.

Operation

The current pulse count from the anemometer is continuously updated on the WIND= line of the display screen. The number displayed is NOT in miles per hour, but is the actual pulse count received from the anemometer. Pulses are accumulated for ten seconds (to average gusts) and then reset.

Using the arrows the two wind trip points can be set. When the wind count exceeds the set points a trip occurs, and TRIP is displayed for that stage. (Stage 1&2 must be set higher than zero for trips to clear.) Each trip has a one minute time delay. As the wind speed is sampled every ten seconds these delays will be extended until the wind conditions subsides.

Typical wind control methods either stage pumps by shutting them off, or vent pressure by opening a bypass valve, such as a low voltage irrigation valve. The controller supports any mix of these by providing normally open and normally closed contacts for each stage. Relay contacts are rated at 8A, but should be used only to switch a contactor, or low voltage valve.

Connections:

The 24 volt input must be as follows + Red -ve Black Failure to do this will damage the controller

24V supply	Controller + and - (jumper for "source input" provided)
Anemometer	Brown and blue to Wind terminals
Out 1	Stage 1 (opens on trip - for pump contactor)
Out 2	Stage 2 (opens on trip - for pump contactor)
Out 3	Stage 1 (closes on trip - for bypass valve)
Out 4	Stage 2 (closes on trip - for bypass valve)

Notes: the one minute time delays are activated when power is first applied to the unit. The anemometer is digital and its **Brown** and **Blue** wires can be extended up to 150 metres if required

