



025C THREE STAGE WIND CONTROLLER

Description

Provides three adjustable setpoints and three spdt output relays that trip instantly on setpoint. The third stage relay output resets 60 seconds after the wind speed remains continuously below the setpoint.

This model can control pressure reducing valves or VFDs in fountain applications, or activate warning and alarm systems in crane applications.

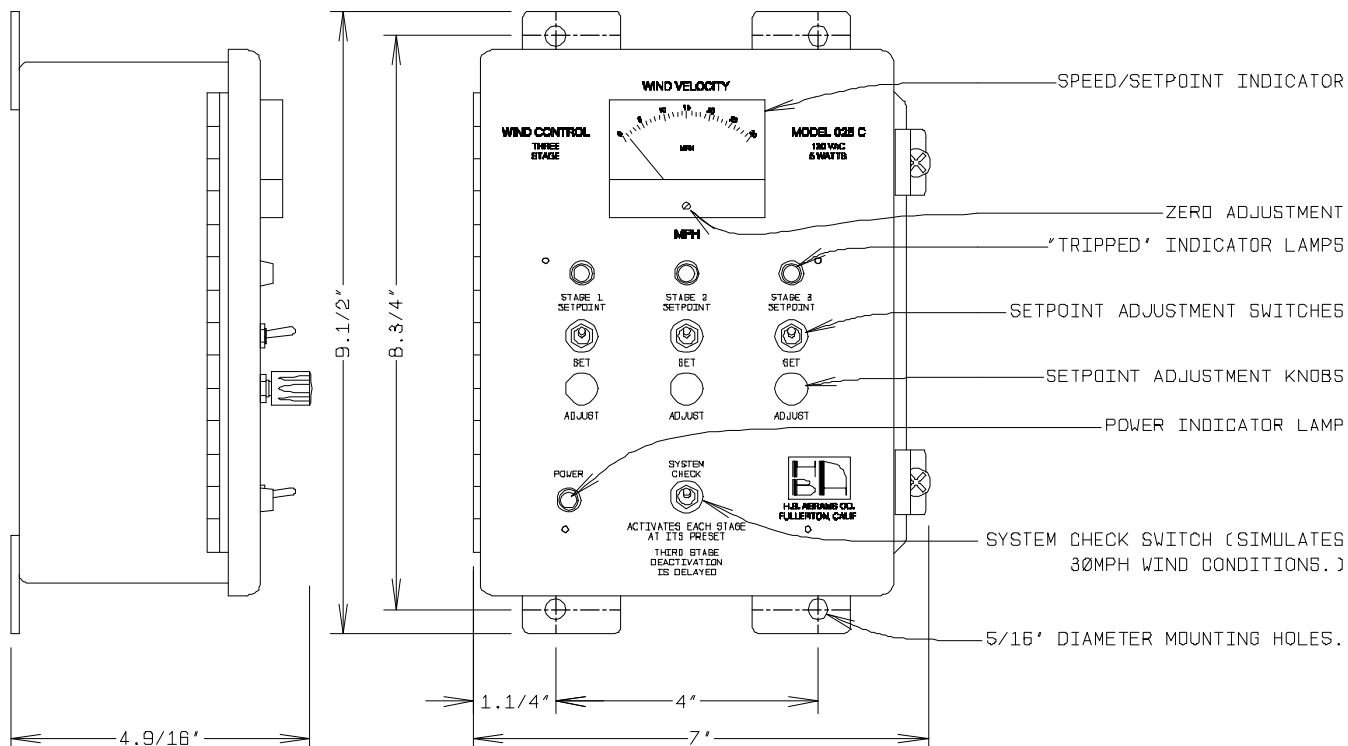
The wind speed is measured by means of an H.B. Abrams Company model 041 cup anemometer. The anemometer is constructed with lightweight, UV resistant plastic. The anemometer mount is a 1/2" male npt brass conduit connection. Refer to the model 041 datasheet for more detail.

The model 025C is standard with analog wind speed indication meter, calibrated for 0 to 30 mph display, 120vac single phase power input, and 5 amp relay outputs. Included is one cup anemometer sensor, but can accept input from two. The third stage features an off delay of 60 seconds to prevent excessive starting of the display pump.

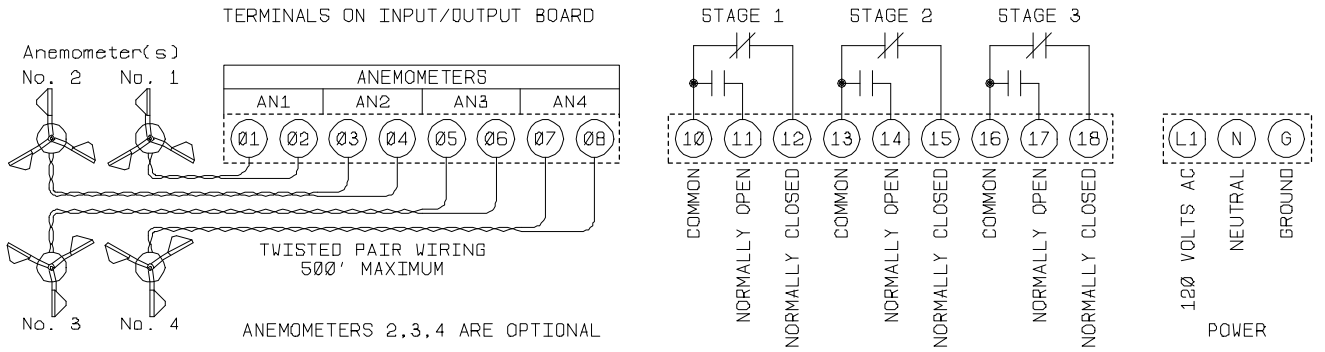
Installation

The controller enclosure is moisture proof but intended to be mounted indoors or under a cover to protect it from direct rain and sunlight. The anemometer (sensing head) can be mounted up to 500' away, with its own conduit and suitable cable (Belden 9250 or similar). The anemometer should be mounted upwind of the fountain by at least 50'. This allows the controller to adjust or shut down the display before the wind gust gets to the fountain.

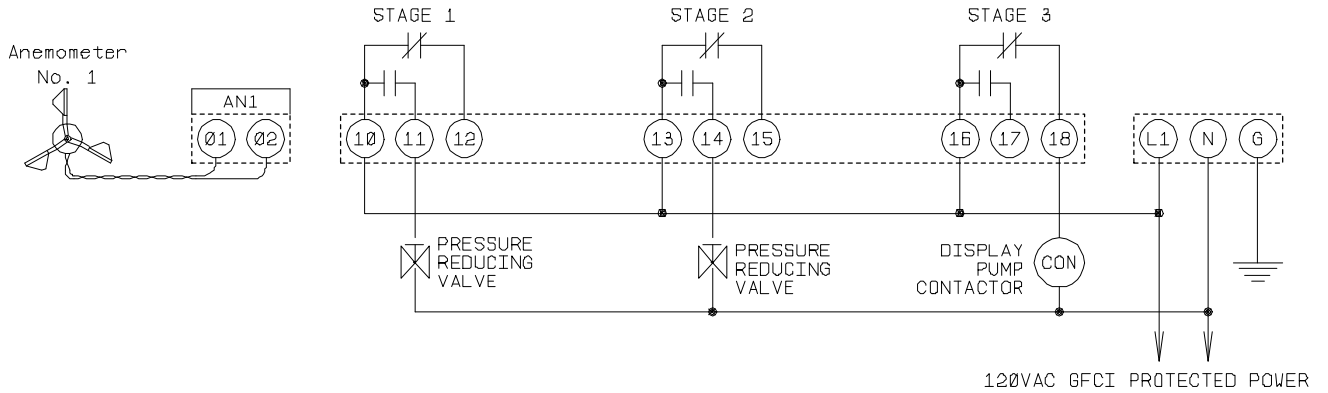
Dimensional Drawing



Connection Diagram



Suggested Electrical Connection



Specifications

Operational range.....0-30 mph

Accuracy.....5% of full scale

Set point adjustable range.....0 mph to 30 mph

Stage 3 off delay.....60 seconds

Enclosure type.....NEMA 4 painted steel

Enclosure dimensions.....8¾" x 7" x 4½"

Input voltage.....120 vac nominal

Input frequency.....50/60 Hz

Power consumption.....5 watts

Shipping weight.....9 lbs

Temperature range.....32°F to 140°F

Anemometer cable.....22ga twisted pair or better (cat5ok)

Operator controls:

- Stage 1 setpoint set switch
- Stage 1 setpoint knob
- Stage 2 setpoint set switch
- Stage 2 setpoint knob
- Stage 3 setpoint set switch
- Stage 3 setpoint knob
- System test switch

Operator indicators:

- Power
- Wind speed / setpoint adjust meter
- Stage 1 setpoint "tripped"
- Stage 2 setpoint "tripped"
- Stage 3 setpoint "tripped"

Relay outputs.....5 amp SPDP relay contacts

Warranty.....One year