

## Weather Transmitter Wind Speed & Direction



### Operation & Installation Manual

#### **! IMPORTANT**

Disconnect power and read installation and operation instructions before installing or operating.

Agrowtek's weather transmitter connects Agrowtek's anemometer and direction vane to the GrowControl™ controller. The transmitter should be located where the sensor wires enter the building. Mount to a wall in a location where there is adequate air movement and where the transmitter will not get wet.

### Transmitter Installation

#### 1. Mounting the transmitter box

Mount the transmitter in an upright position on a vertical surface using the two mounting holes.

#### 2. Connecting the sensors

The terminal blocks may be removed for wiring. Connect the sensor wires according to the label on the transmitter cover. Ensure connections and wires are tight.

#### 3. Connect the transmitter to the controller

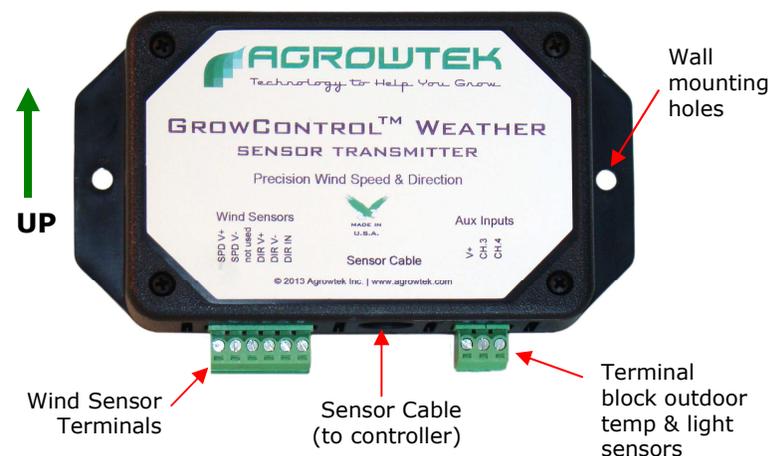
Disconnect the power to the controller. Using the supplied sensor cable, connect one end to the transmitter and the other end to the desired sensor port.

#### 4. Mapping & Calibrating

The transmitter may not be factory mapped to the connected sensor port. See controller manual for mapping instructions.

Speed sensors do not require calibration. Direction sensors are calibrated physically (see below.)

#### Weather Transmitter



#### **! NOTE**

Mount the transmitter upright on a vertical surface for optimal cooling performance.

## Sensor Installation

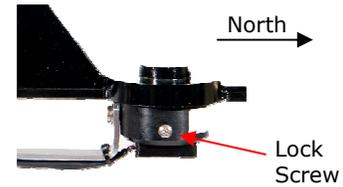
The sensors are designed for rugged outdoor use in all seasons. The sensors include mounting brackets with similar holes. Install the sensors in a location where they have un-obstructed access to wind such as the peak of a roof or atop a poll. Ensure the sensors are not blocked by trees, roofs, buildings, stacks, etc.

The sensors are equipped with 25ft. of outdoor rated cable. If necessary, the cables may be spliced up to 100 ft. Keep the sensor wires to the transmitter as short as possible; extend the cable between the transmitter and controller if necessary. Do not run sensor wires parallel to power wires or other cables.



## Wind Vane Calibration

1. Mount the sensors or determine the mounting orientation.
2. Turn the vane until the display reads directly North.
3. Tighten the "lock screw" until it is snug on the vane's shaft.
4. Twist the vane until the nose points true North.
5. Release the lock screw.



This completes the calibration for the wind direction vane. The wind speed anemometer does not require calibration.

## Transmitter Wiring Diagram



### Warranty:

Agrowtek Inc. warrants that all manufactured products are, to the best of its knowledge, free of defective material and workmanship and warrants the transmitter electronics and sensors for **2 years** from the date of purchase. This warranty is extended to the original purchaser from the date of receipt. This warranty does not cover damages from abuse, accidental breakage, or units that have been modified, altered, or installed in a manner other than that which is specified in the installation instructions. Agrowtek Inc. must be contacted prior to return shipment for a return authorization. No returns will be accepted without a return authorization. This warranty is applicable only to products that have been properly stored, installed, and maintained per the installation and operation manual and used for their intended purpose. This limited warranty does not cover products installed in or operated under unusual conditions or environments including, but not limited to, high humidity or high temperature conditions. The products which have been claimed and comply with the aforementioned restrictions shall be replaced or repaired at the sole discretion of the Agrowtek Inc. at no charge. This warranty is provided in lieu of all other warranty provisions, express or implied. It is including but not limited to any implied warranty of fitness or merchantability for a particular purpose and is limited to the Warranty Period. In no event or circumstance shall Agrowtek Inc. be liable to any third party or the claimant for damages in excess of the price paid for the product, or for any loss of use, inconvenience, commercial loss, loss of time, lost profits or savings or any other incidental, consequential or special damages arising out of the use of, or inability to use, the product. This disclaimer is made to the fullest extent allowed by law or regulation and is specifically made to specify that the liability of Agrowtek Inc. under this limited warranty, or any claimed extension thereof, shall be to replace or repair the Product or refund the price paid for the Product.