

Air Speed Sensor

Installation & Operator's Instruction Manual



Introduction

The Airspeed Sensor is used to measure the air speed in a tunnel ventilated building. Using this equipment for any other purpose or in a way not within the operating recommendations specified in this manual will void the warranty and may cause personal injury.

Safety

DANGER! Electrical Hazard

Disconnect electrical power to the Control and to ALL electrical devices connected to the Control's Relay Box before installing the update kit! Failure to disconnect power to equipment connected to Relay Box could result in personal injury.



CTB Inc. Warranty

CTB Inc. warrants each new product manufactured by it to be free from defects in material or workmanship for one year from and after the date of initial installation by or for the original purchaser. If such a defect is found by the Manufacturer to exist within the one-year period, the Manufacturer will, at its option, (a) repair or replace such product free of charge, F.O.B. the factory of manufacture, or (b) refund to the original purchaser the original purchase price, in lieu of such repair or replacement. Labor costs associated with the replacement or repair of the product are not covered by the Manufacturer.

Conditions and Limitations

1. The product must be installed by and operated in accordance with the instructions published by the **Manufacturer or Warranty will be void.**
2. Warranty is void if **all components** of the system are not original equipment supplied by the **Manufacturer.**
3. This product must be purchased from and installed by an authorized distributor or certified representative thereof or the Warranty will be void.
4. Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance shall not be considered defects under the Warranty.
5. This Warranty applies only to systems for the care of poultry and livestock. Other applications in industry or commerce are not covered by this Warranty.

The **Manufacturer** shall not be liable for any **Consequential or Special Damage** which any purchaser may suffer or claim to suffer as a result of any defect in the product. **“Consequential”** or **“Special Damages”** *as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.*

THIS WARRANTY CONSTITUTES THE MANUFACTURER’S ENTIRE AND SOLE WARRANTY AND THIS MANUFACTURER EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSES SOLD AND DESCRIPTION OR QUALITY OF THE PRODUCT FURNISHED HEREUNDER.

CTB Inc. product Distributors are not authorized to modify or extend the terms and conditions of this Warranty in any manner or to offer or grant any other warranties for CTB Inc. products in addition to those terms expressly stated above. An officer of CTB, Inc. must authorize any exceptions to this Warranty in writing. The Manufacturer reserves the right to change models and specifications at any time without notice or obligation to improve previous models.

Effective: **May 2017**

Thank You

The employees of CTB Inc. would like to thank your for your recent purchase. If a problem should arise, your CTB distributor can supply the necessary information to help you.

Assembly

Attach the Airspeed Sensor (**Item 1, Figure 1**) to the Mounting Bracket (**Item 2**) using the nuts and washers attached to the Sensor itself.

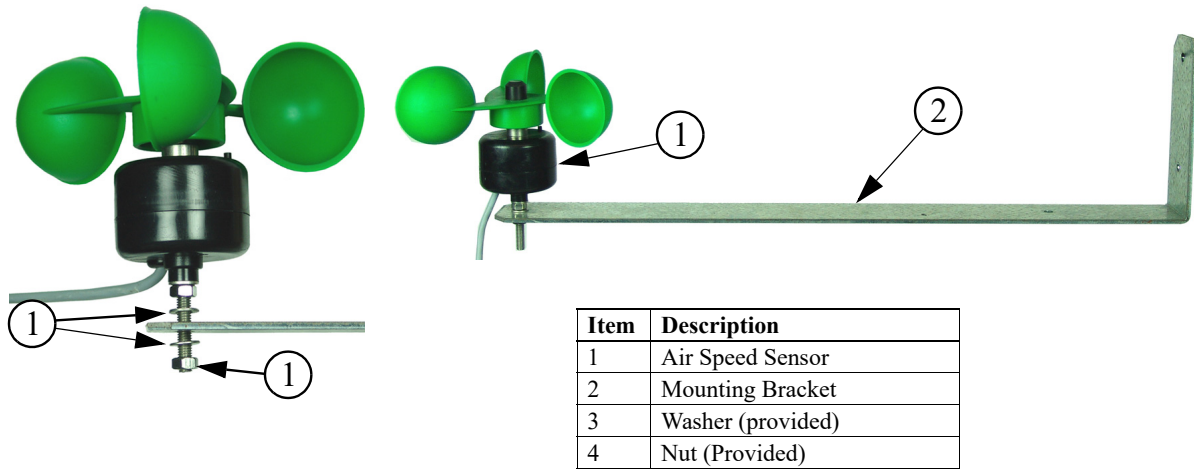


Figure 1. Air Speed Sensor Assembly

Attach the Mounting Bracket (**Item 1, Figure 2**) to a 2" x 4" board (**Item 2**) using (3) #8 screws (**Item 3**) provided. It is recommended that the board be connected to the ceiling using a Hinge (not provided). This is to allow the Sensor to be lifted out of the way during cleanout.

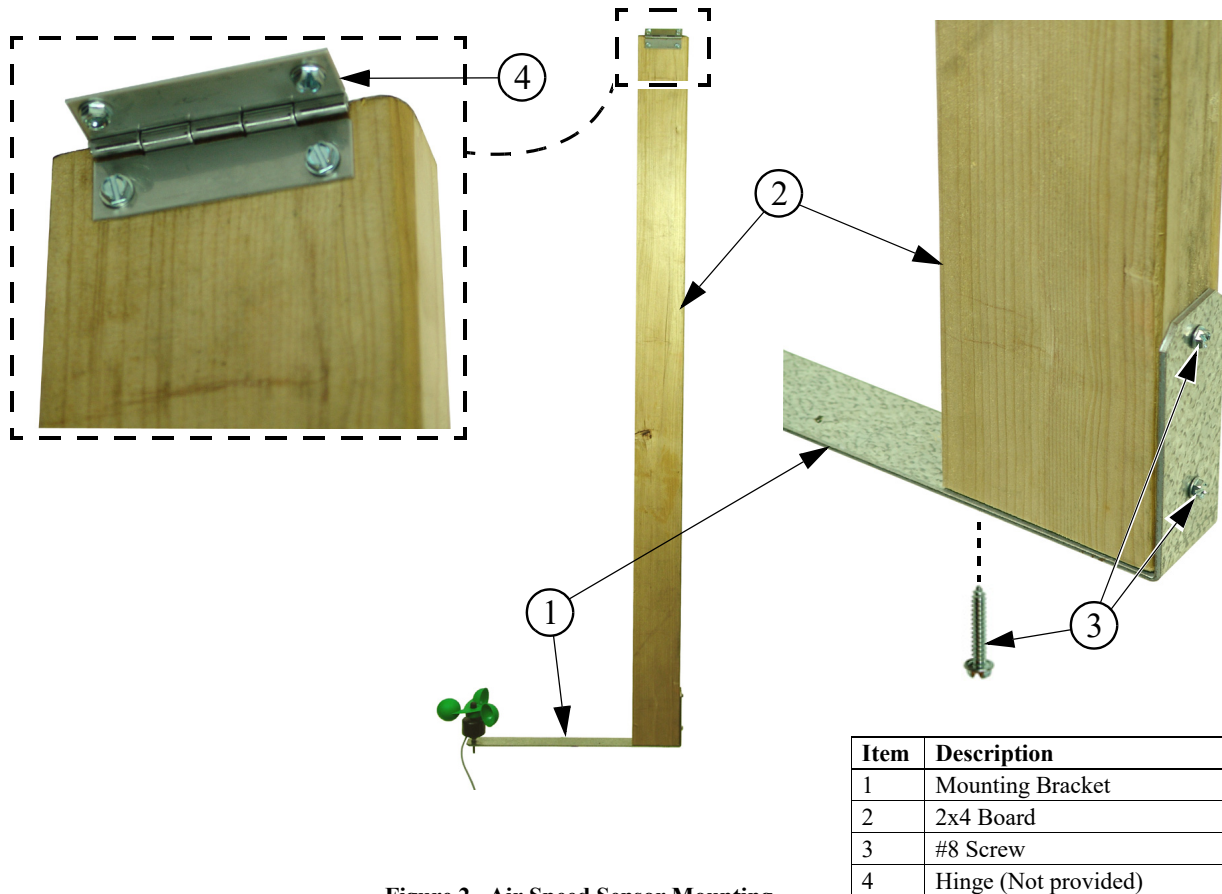


Figure 2. Air Speed Sensor Mounting

The Air Speed Sensor (**Item 1, Figure 3**) should be located approximately 50 feet from the Tunnel Fans, 3 feet off the floor in the center of the building. Do not mount the Sensor to the wall. The Sensor needs to have a rigid mounting for a more accurate airspeed measurement. The Airspeed Sensor should be oriented so that the axis of the Sensor is vertical and the three plastic cups spin horizontally.

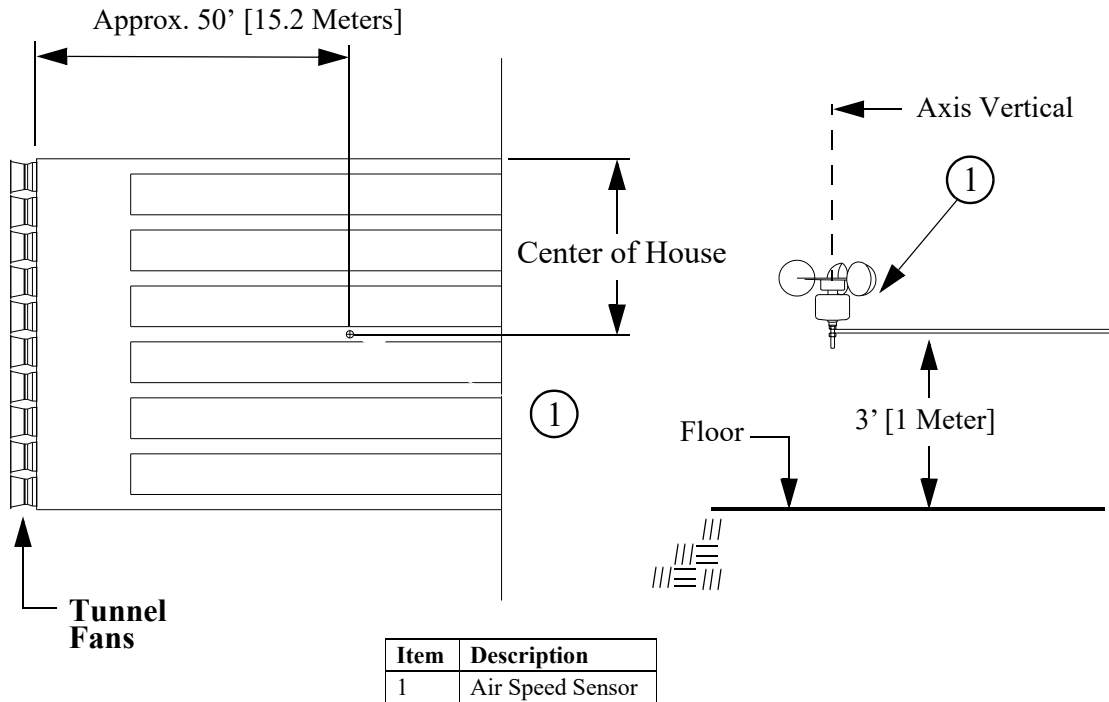
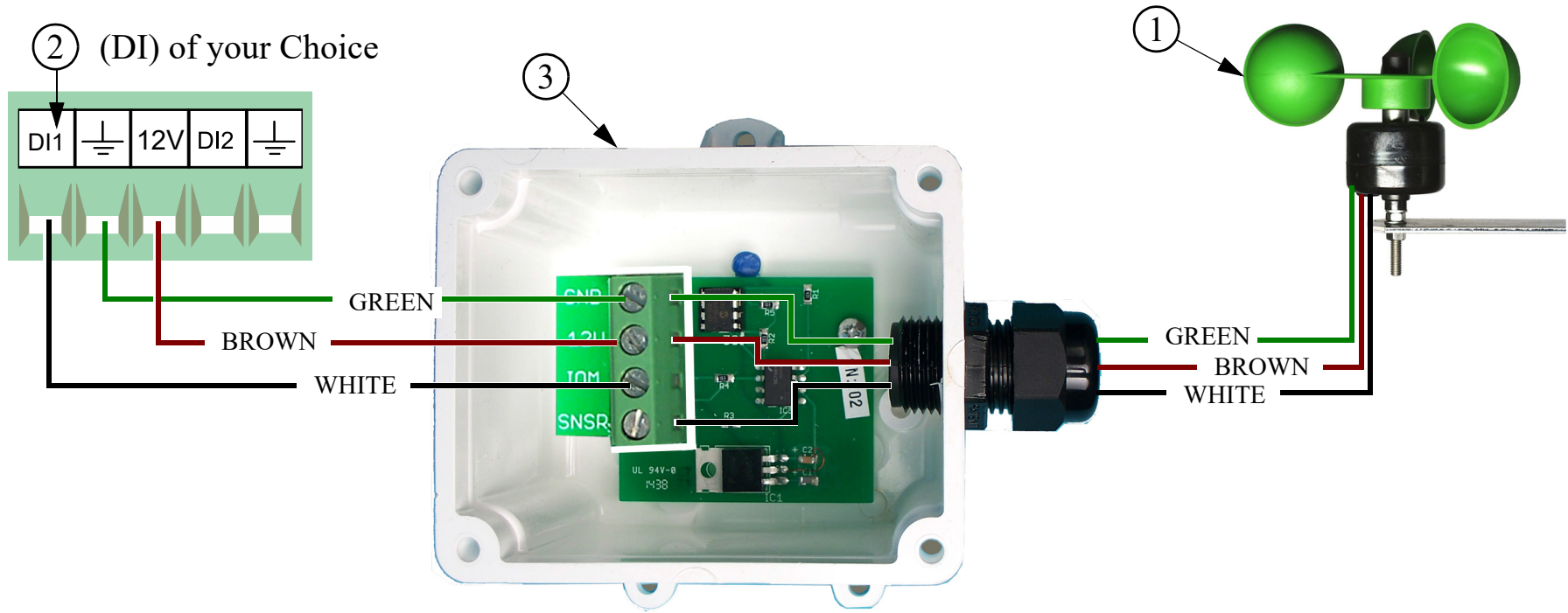


Figure 3. Air Speed Sensor location

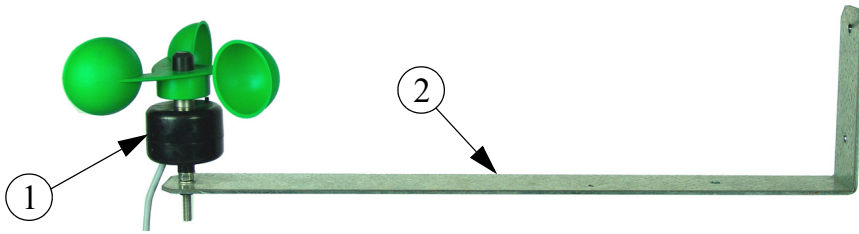
Wiring

The Airspeed Translation Box can be placed anywhere in line between the Control and the Sensor. Recommended locations would be either right next to the Control or mounted on the Mounting Bracket of the Sensor.



Item	Description
1	Airspeed Sensor
2	I/O Board Digital Input (DI) terminal of your Choice
3	Airspeed Translation Box

Parts List



Item	Description	Part No.
1	Air Speed Sensor	49350
2	Mounting Bracket	49351

**Made to work.
Built to last.**

Revisions to this Manual

Page No.	Description of Change	ECO
	Added Wiring Diagram	32672

Contact your nearby Chore-Time distributor or representative for additional parts and information.



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