

# PIXHAWK DIGITAL AIRSPEED SENSOR



Digital airspeed sensor



Four-wire I<sup>2</sup>C cable



Pitot tube



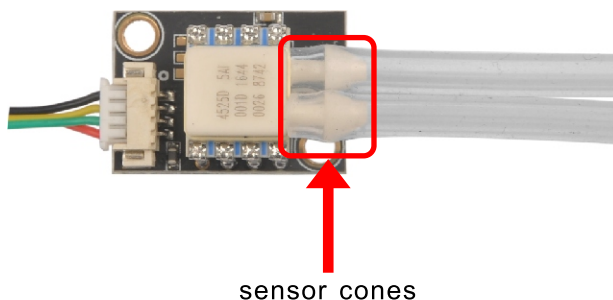
Rubber tubing

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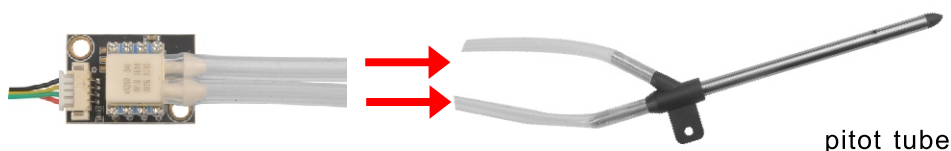
## Assemble

Connect the four-wire cable to the four-position port on the airspeed sensor.

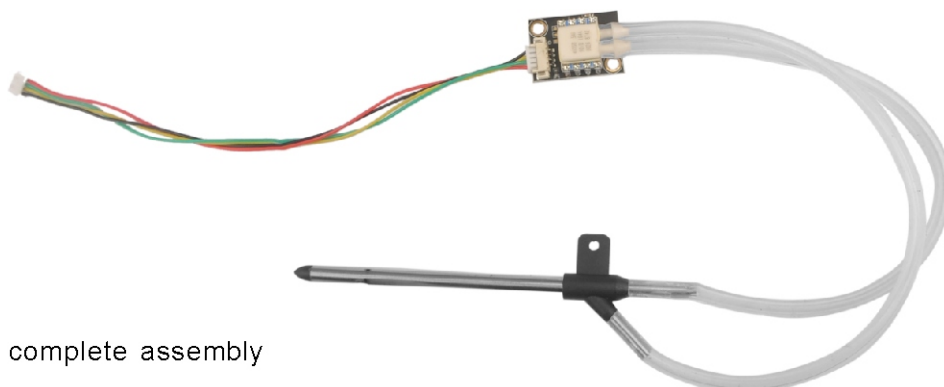
Cut the piece of rubber tubing in half. You should have two pieces of equal length. Attach a piece to each of the input sensor cones on the board.



Connect the tube attached to the cone on the top of the board to the longer extension on the pitot tube, and connect the tube attached to the cone on the main, lower section of the board to the smaller extension on the pitot tube.



pitot tube



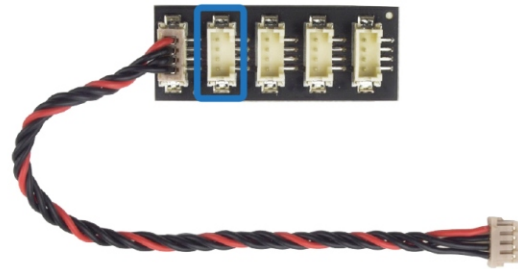
complete assembly

# Connect to Pixhawk

Connect the four-wire cable to Pixhawk's I<sup>2</sup>C port or I<sup>2</sup>C splitter.



Pixhawk



I<sup>2</sup>C splitter.

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## Mount

Mount the pitot tube parallel to the fuselage of your aircraft, facing into the wind, at least 1.5 inches away from the fuselage. Make sure the rubber tubing isn't bent to an extent that the air is restricted from flowing freely within the tube.

Check out this 3D-printed mount at [Thingiverse](#).



# Configuration

To enable the airspeed sensor, connect Pixhawk to Mission Planner (or APM Planner for OSX), and select the Advanced Parameter List under the Configuration tab. Locate the ARSPD\_PIN parameter and set to 65. Select Write Params to apply.

For instructions on downloading software and connecting Pixhawk, visit [3dr.com/learn](http://3dr.com/learn)

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# Specifications

Measurement Specialties 4525DO sensor, one psi measurement range  
(roughly up to 100 m/s or 360 km/h or 223 mp/h)

Resolution of 0.84 Pa

Data delivered at 14 bits from a 24 bit delta-sigma ADC

M3/6-32 mounting holes