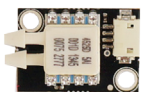# PIXHAWK DIGITAL AIRSPEED SENSOR

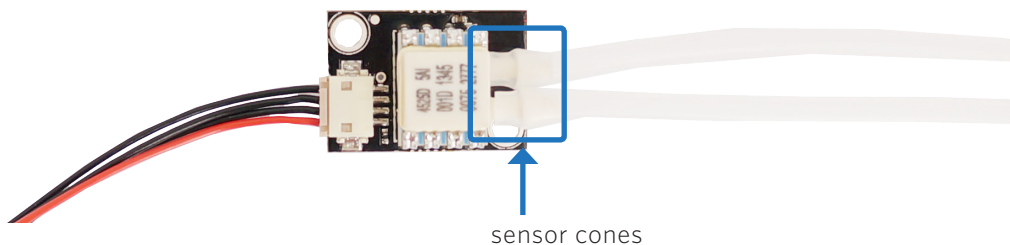Digital airspeed sensor

Four-wire I^{2}C cable

Pitot tube

Rubber tubing

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.

sensor cones

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 extention on the pitot tube.
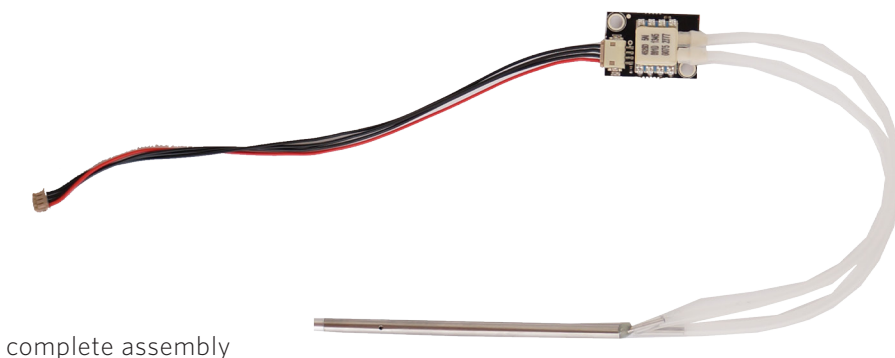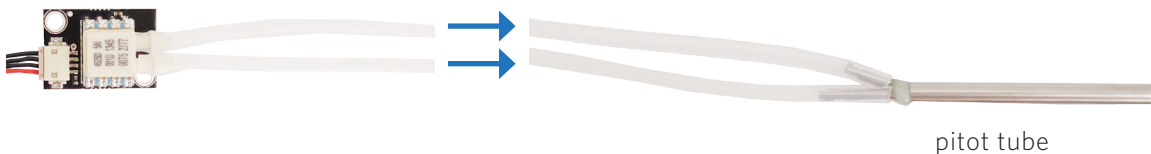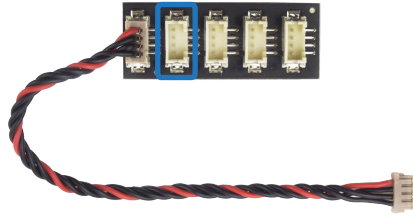

pitot tube

complete assembly

Connect to Pixhawk

Connect the four-wire cable to Pixhawk's I²C port or I²C splitter.

Pixhawk

I²C splitter

Mount

Mount the pitot tube parellel 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 OS X), 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**.

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

Support

For customer support, contact us at **help@3drobotics.com** or call our support line at **+1 (858) 225-1414** Monday through Friday, from 8 am to 5 pm, PST.

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