How to use the flow sensor

Pin Layout:

Color Wire	Pin Connection	Description
Black	GND (top left)	Ground
Red	Vin (3.6 to 6.0 volts)	Power for Hall Effect Sensor
Yellow	Pin 0 (Can be any sort of digital IO)	Signal

In order to use the flow sensor, the red wire must be connected to 5V power of some sort, the black wire must be grounded, and the yellow wire must be connected to whatever digital input is being used for the receiving the signal.

How it works

The flow sensor works by using the air being blown to spin a wheel. As the wheel spins, it activates a Hall Effect sensor that outputs a signal whenever the wheel cycles.

The code

I have written a program that reads the input of the flow sensor as an interrupt and tracks the delta in the airflow. Play around with the magic numbers in the program to get the values you need. The code can be found in the TeensyNet git repo. The file is named “AirFlow_Sensor.ino”

Additional Resources

Flows sensor details: https://wiki.dfrobot.com/Water_Flow_Sensor_-_1_8_SKU_SEN0216?fbclid=IwAR2ovSvKDDr2hWh64FjXCcbcn5iEIfJS1dgKl65Yfkh8sNXYSCyTIWbFHik