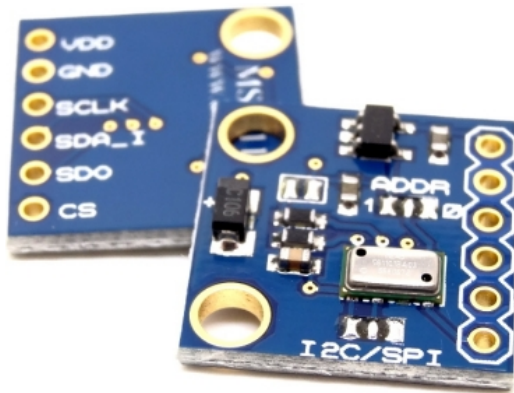
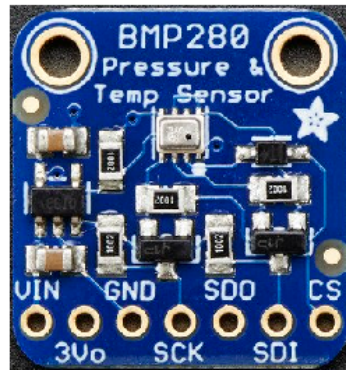


[Docs](#) » [Peripheral Hardware](#) » Barometer (external)

Barometer (external)



Drotek MS5611



Adafruit BMP280

Most autopilots include a barometer directly on the autopilot but attaching an external barometer can be useful in order to place the barometer away from air pressure disturbances. It can also allow monitoring the environmental or an internal component's temperature within a typical range of -40 - +85°C.

⚠ Warning

Copter-3.6 only supports the Drotek MS5611. BMP280 support will be released with Copter-4.0.

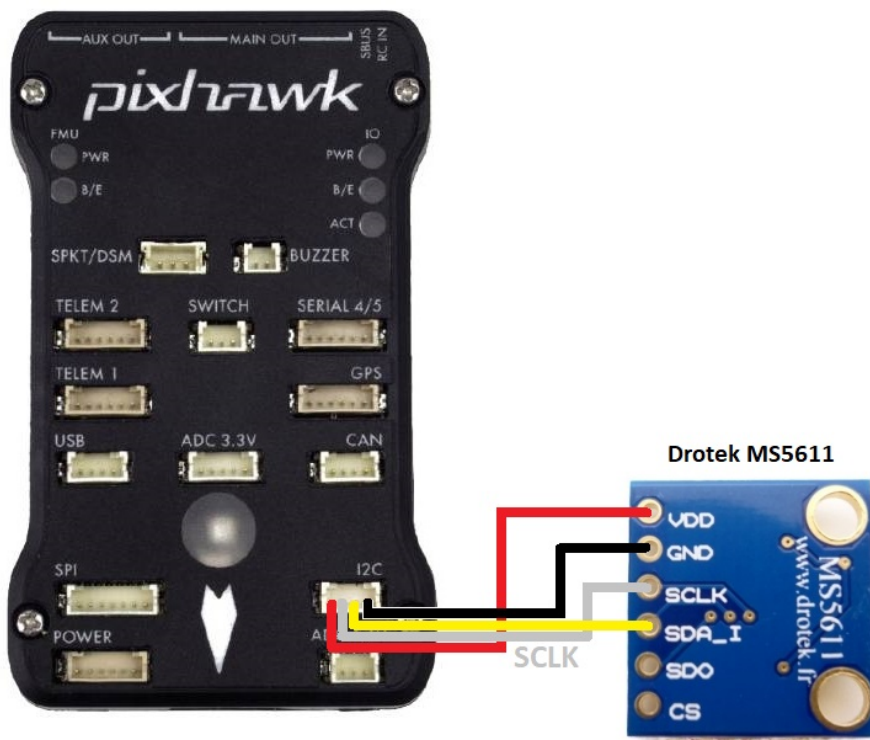
📌 Note

Copter users can partially reduce the effect of air pressure disturbances by enabling [Ground Effect Compensation](#)

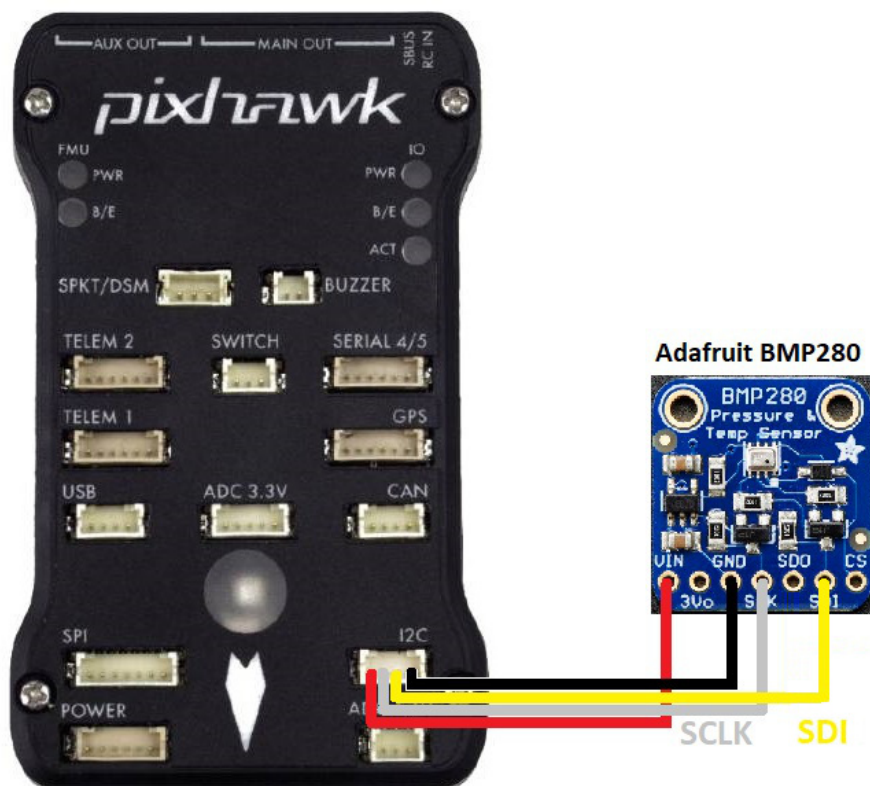
Where to Buy

- [MS5611 from Drotek](#) (recommended)
- [BMP280 I2C from Adafruit](#)

Connecting and Configuring



On the top of the Drotek MS5611 board, the “I2C” jumper should be soldered. Look for “I2C/SPI” written on the board.



- [BARO_PROBE_EXT](#) to 4 for the Drotek MS5611 or 2 for the Adafruit BMP280. Reboot the autopilot after changing this parameter.

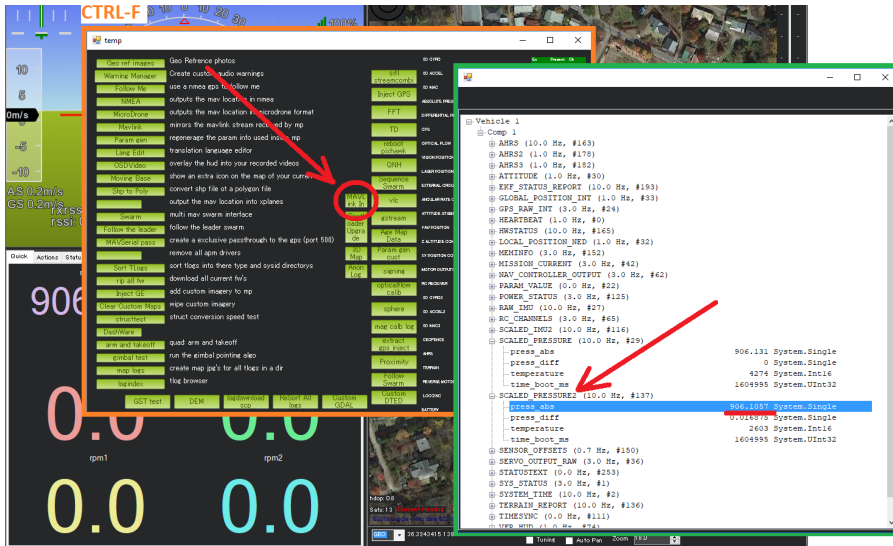
Testing



Real-time pressure and temperature from the barometer are sent to the ground station. If using Mission Planner they are visible on the Flight Data >> Status tab, look for “press_abs2” and “press_temp2”.

Mission Planner’s MAVLink Inspector can also be used to view the data. From the Flight Data screen press Ctrl-F, then push the “MAVLink In” button and then expand the view and look for SCALED_PRESSURE2.

MENU



Tip

If using ArduPilot onboard OSD, the secondary barometer's temperature reading can be displayed using the OSDn_BTEMP panel.