



TPH-board rev.4

SKU: 114990245

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Description

The TPH-board rev.4 is the upgrade version of TPH-board (<http://www.seeedstudio.com/depot/TPH-Board-the-Temperature-Pressure-Humidity-Sensor-Board-p-1895.html>) which is a new sensor board for measuring the Temperature, Pressure and the Humidity (TPH!).

This board has the Sensirion SHT21 humidity sensor and the Bosch Sensortec BMP180 pressure sensor (both capable of measuring temperature). Compare to the TPH-board the new version is 3.3 volt and 5V compatible, which makes it perfect to use with boards like the SODAQ Mbili (<http://www.seeedstudio.com/depot/SODAQ-Mbili-p-2226.html>) and Seeeduino Stalker (http://www.seeedstudio.com/depot/s/seeeduino%2Bstalker%2Bv.html?search_in_description=0) and suitable for 5V Arduino boards .

Both the SHT21 and the BMP180 are connected through the I2C/TWI with the easy Grove-header. Pull-up resistors are available on the TPH-board, but if undesired you can disconnect them through the cut-trace on the back.

The Bosch Sensortec BMP180 is a new high-precision barometric pressure sensor. The pressure range is 300 to 1100 hPa and has a high relative accuracy of +/-0.12hPa (+/-1m). This version is almost identical to the older BMP085 and can be used with the same arduino libraries.

The Sensirion SHT21 is a digital humidity sensor. The relative humidity (RH) operating range is from 0 to 100% RH and has a precision of 0.04% RH.

You can use the standard Bosch BMP Library and the Sensirion SHT Library, but a you can find the SODAQ (<http://www.seeedstudio.com/depot/SODAQ-Mbili-rev5-p-2387.html>) Arduino library here (https://github.com/SodaqMoja/Sodaq_TPH)

Specification:

- Size: 26 * 19 mm
- 3.3 and 5V volt compatible
- Grove compatible
- Sensirion SHT21 humidity sensor
- Bosch Sensortec BMP180 pressure sensor
- Double temperature sensor (SHT21 & BMP180)
- Operating temp: -40 .. +85 degrees Celcius
- I2C pull-up resistors with cut-trace

For any technical support or suggestion, please kindly go to our forum
(<http://www.seeedstudio.com/forum/viewforum.php?f=65&sid=0e17b512153a5f3d553b60bf8e80765d>).