

BMP085 (GY-65) - Atmospheric Pressure and Temperature Sensor, Altimeter

Sensor Type: BMP085 (GY-65) - Atmospheric Pressure and Temperature Sensor, Altimeter

Description:

BMP085 is a Barometric Digital Pressure Sensor.

Typical applications are:

- Weather forecast
- Vertical velocity indication (rise/sink speed)
- Altimetry
- Enhancement of GPS navigation (dead-reckoning, slope detection, etc.)

You can either use the BMP085 sensor with the breakout board GY-65 or you can build your own circuit. In the BMP085 data sheet you can find the circuit (search for BOSCH BMP085 datasheet, typical application circuit).

The 'BMP085 (GY-65) Library' use the I2C protocol. You can use I2C Transfer Rate 'Standard Mode (100 kbps)' or 'Fast Mode (400 kbps)' and you can select between four different oversampling modes (measurement accuracies):

- Ultra Low Power
- Standard
- High Resolution
- Ultra High Resolution

For more information and specifications check data sheet.

Instructions:

The API is implemented on RT.

To get the measured pressure and temperature values from BMP085 use [API functions](#) in API folder from 'BMP085 (RT).lvlib'.

There is also '[Example – BMP085 \(RT\).vi](#)' in Example folder.

