

MOD-BME280

MOD-BME280 COMBINED HUMIDITY, TEMPERATURE AND PRESSURE PRECISION SENSOR MODULE



MOD-BME280 is combined humidity, temperature and pressure sensor module based on Bosch BME280 sensor. It has two digital interfaces: I2C (up to 3.4 MHz) and SPI (3/4 wire, up to 10 MHz). Typical use is: Home automation control, quality of working environment, control heating, venting, air conditioning (HVAC), elevator detection (change of air pressure), Vertical velocity indication (rise/sink speed).

IMPORTANT NOTICE: BME380 sensor works on 3.3V power supply, if you use it with Arduino set on 5V you will damage this sensor.

FEATURES

- Operating voltage 3.3V
- Temperature -40..+85C
- Humidity 0...100 % Rh

DOCUMENTS

- [BME datasheet](#)
- [Comparison of different Humidity sensors](#)
- [MOD-BME280 European Declaration of Conformity](#)
- [MOD-BME280 UKCA Declaration of Conformity](#)

- Pressure 300...1100 hPa (+9000m..-500m above sea level)
- Humidity sensor Response time: 1 s
- Humidity accuracy ± 3 % Rh
- Pressure sensor RMS Noise 0.2 Pa, equiv. to 1.7 cm
- Current consumption 1.8 μA @ 1 Hz humidity and temperature
- Current consumption 2.8 μA @ 1 Hz pressure and temperature
- Current consumption 3.6 μA @ 1 Hz humidity, pressure and temperature
- 0.1 μA in sleep mode
- Dimensions: 22 x 35 mm

HARDWARE

- [MOD-BME280 schematic in PDF format](#)
- [KiCad files for MOD-BME280](#)

SOFTWARE

- [Arduino demo example](#)