

Luminosity sensor	<a href="#">TSL2561</a>
Temperature and Humidity sensor	<a href="#">SI7021</a>
Pressure sensor	<a href="#">BMP180</a>
Accelerometer and Gyroscope	<a href="#">MPU6050</a>
Magnetometer	<a href="#">HMC5883L</a>
Air Quality Sensor	<a href="#">CCS811</a>
Particle Sensor	<a href="#">MAX30105</a>
RGB and Gesture Sensor	<a href="#">APDS9960</a>

#### **Luminosity sensor: TSL2561**

- Output: Intensity in Lux
- [Datasheet](#)

#### **Temperature and Humidity sensor: SI7021**

- Output: Temperature in Celsius (°C) and Humidity(Relative Humidity) in (%)
- Datasheet:<https://cdn.sparkfun.com/assets/b/1/b/8/5/SI7021-A20.pdf>

#### **Pressure sensor: BMP180**

- Output: mbar and mmHg
- Datasheet:<http://cdn.sparkfun.com/datasheets/Sensors/Pressure/BMP180.pdf>

#### **Accelerometer and Gyroscope:MPU6050**

- Output: Acceleration: x, y and z direction in terms of g and rotation in degrees(°)
- Datasheet:<http://43zrtwysvxb2gf29r5o0athu.wpengine.netdna-cdn.com/wp-content/uploads/2015/02/MPU-6000-Datasheet1.pdf>

#### **Magnetometer: HMC5883L**

- Output: milligauss (mG)
- Datasheet:<https://cdn.sparkfun.com/datasheets/Sensors/Magneto/HMC5883L-FDS.pdf>

#### **Air Quality Sensor: CCS811**

- Output: CO2 in Parts per Million (PPM) and Total Volatile Organic Compound(TVOC) in Parts per Billion (PPB)
- Datasheet:[https://cdn.sparkfun.com/assets/learn\\_tutorials/1/4/3/CCS811\\_Datasheet-DS000459.pdf](https://cdn.sparkfun.com/assets/learn_tutorials/1/4/3/CCS811_Datasheet-DS000459.pdf)

### Particle Sensor: MAX30105

- Output: Current heart rate and average heart rate in beats per minute (bpm)
- Datasheet:[https://cdn.sparkfun.com/assets/learn\\_tutorials/5/7/7/MAX30105\\_3.pdf](https://cdn.sparkfun.com/assets/learn_tutorials/5/7/7/MAX30105_3.pdf)

### RGB and Gesture Sensor: APDS9960

- Output: Gesture in Up, Down, Left, Right, Far and Near ; RGB Value in the range of 0 to 1023
- Datasheet:<https://cdn.sparkfun.com/datasheets/Sensors/Proximity/apds9960.pdf>