

## Pressure Sensor

# BM1383AGLV-EVK-001 Manual

BM1383AGLV-EVK-001 is an evaluation board for BM1383AGLV, which is a ROHM Pressure Sensor. This User's Guide is about how to use BM1383AGLV-EVK-001 together with SensorShield\*1. \*1 SensorShield is sold as Shield-EVK-001.

## Preparation

- Arduino Uno 1pc
- Personal Computer installed Arduino IDE 1pc
  - Requirement : Arduino 1.6.7 or higher
  - Please use Arduino IDE which can be downloaded from the link below:  
<http://www.arduino.cc/>
- USB cable for connecting Arduino and PC 1pc
- SensorShield 1pc
- BM1383AGLV-EVK-001 1pc

## Setting

1. Connect the Arduino and the SensorShield (Figure 1)

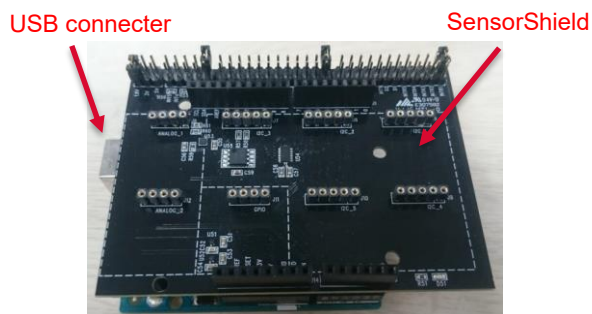


Figure 1. Connection between the Arduino and the SensorShield

2. Connect BM1383AGLV-EVK-001 to the socket of I2C area on the SensorShield (Figure 2)
3. Set Voltage of the SensorShield to 1.8V or 3.0V (Figure 2)

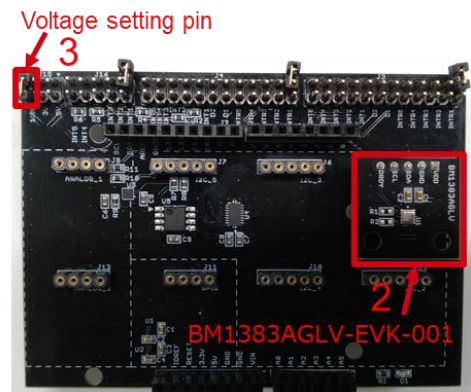


Figure 2. Connection between BM1383AGLV-EVK-001 and the SensorShield

4. Connect the Arduino to the PC using a USB cable
5. Download BM1383AGLV.zip from the link below:  
<http://www.rohm.com/web/global/sensor-shield-support>
6. Launch Arduino IDE
7. Select [Sketch]->[Include Library]->[Add.ZIP library...], install BM1383AGLV.zip
8. Select [File]->[Examples]->[BM1383AGLV]->[example]->[BM1383AGLV]

Measurement

1. Select [Tools] and check the contents enclosed in the red frame. (Figure 3) Board should be "Arduino/Genuino Uno" and Port should be COMxx (Arduino/Genuino Uno). COM port number is different in each environment.

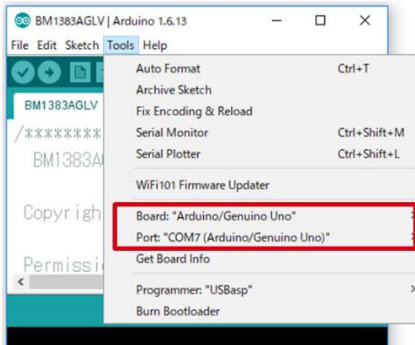


Figure 3. COM Port setting

2. Write the program by pressing right arrow button for upload (Figure 4)
3. Wait for the message "Done uploading" (Figure 4)

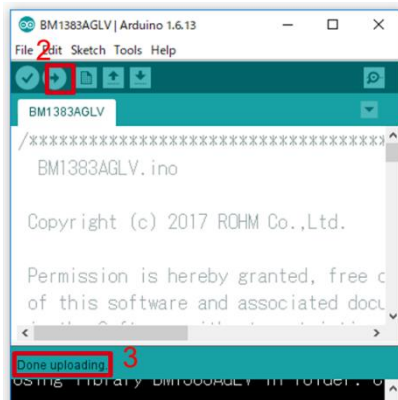


Figure 4. Uploading

4. Select [Tools]->[Serial Monitor] (Figure 5)

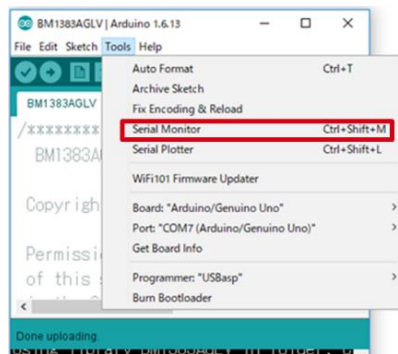


Figure 5. Tools Setting

5. Check log of Serial Monitor (Figure 6)

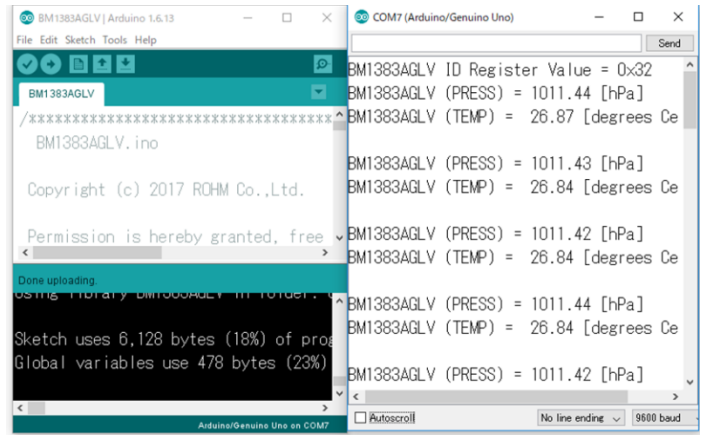


Figure 6. Serial Monitor

Board Information

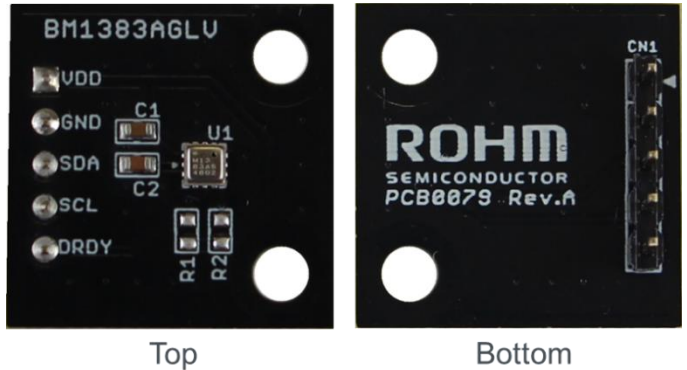


Figure 7. Picture of the board

Parts number	Function
C1	Bypass capacitor for VDD(0.1uF)
C2	Bypass capacitor for DREG(0.22uF)
R1	Pull-up register for SDA(N.M.)
R2	Pull-up register for SCL(N.M.)

※N.M. = No Mount

Table 1. Parts information

## Notes

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