**QUICK SETUP GUIDE MUSEON 1.1**

**Version 2.6**

**INSTALL MUSEON 1.1 ANDROID APK**

**INSTALL LATEST FIRMWARE (FOTA)**

**READ SENSOR DATA**

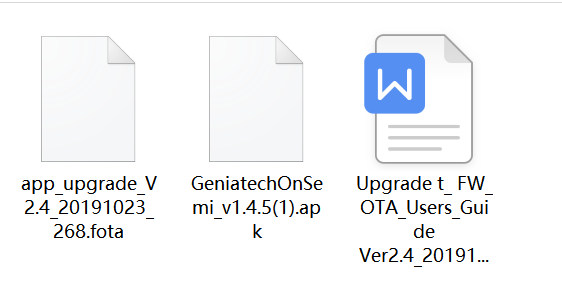
**MuSeOn 1.1 + DB4, base Linux + Phyton Script**

**REVISION HISTORY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DATE | REVISION TYPE | REVISION # | COMMENTS | INITIALS |
| 10/24/2019 | Major | 1.0 | Initial version | SY |
| 10/30/2019 | Major | 1.1 | Change the way you enter FOTA | SY |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**NOTE:** ONCE YOU GET THIS MUSEON 1.1 DEVICE, PLEASE CLICK THE RST OR PWR BUTTON TO CHECK THE BATTERY STILL HAS POWER, IF YOU CANNOT UPGRADE THE FW, BUT THE APK STILL CAN READ THE SENSOR DATA ALSO MEANS LOW POWER. PLEASE CHANGE A NEW CR2032 AND TRY TO UPGRADE THE FW FOLLOW THE STEPS BELOW.

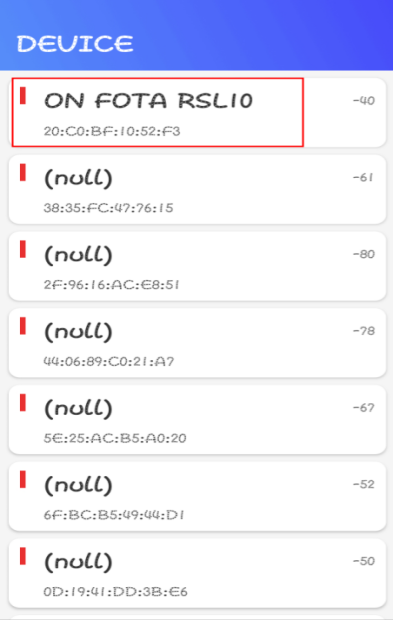
1. [PLEASE DOWNLOAD PACKAGE AND YOU WILL SEE THE FW(.FOTA) AND APK.](https://www.dropbox.com/sh/yk2586j0bbv8dcy/AACOzALrFvBRD52lbfCEscEBa?dl=0)





1. INSTALL THE GENIATECHONSEMI\_V1.4.5.APK. APK INTO ANDROID PHONE, IT'S BETTER THAT THE SMART PHONE HAS BT5. AND THEN COPY THE‘APP\_UPGRADE\_V2.4\_20191023\_268.FOTA TO THE PHONE (REMEMBER WHERE YOU PUT IT). YOU WILL NEED TO FIND THE ‘.FOTA’ FILE AND UPGRADE IT VIA THE APK.
2. PRESS THE ‘PWR’ BUTTON ON THE EDGE 5S FOR SETTING THE OTA MODE. RUNNING THE APP "GENIATECHONSEMI" AND CHOOSE ‘OTA ’ THEN YOU SHOULD FIND ‘ON FOTA RSL10’. CONNECT THIS SIGNAL. (please use this way to entry FOTA mode this time, after upgrade the new FW, then you can use the new operation below to entry the FOTA mode.)

now we keep press the ‘PWR’ button and then press 'RST'button 1Second and release, until the red light flashes twice into the OTA mode, and then release the 'PWR'button.



1. PLEASE CLICK THE ‘SELECT FILE’ AND FIND ‘APP\_UPGRADE\_V2.4\_20191023\_268.FOTA’ YOU SAVED BEFORE.  THEN CLICK 'UPGRADE' BUTTON. AFTER FINISHED, PLEASE CLICK THE ‘RST’ BUTTON ONE TIME.



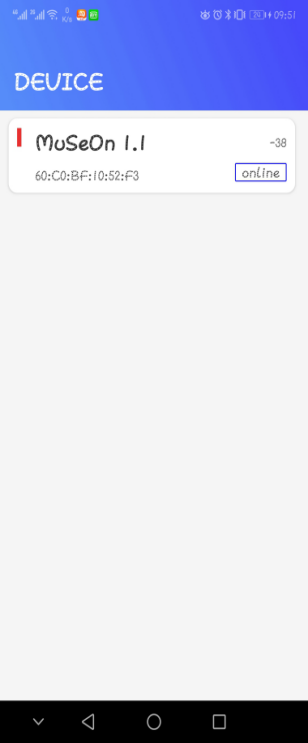
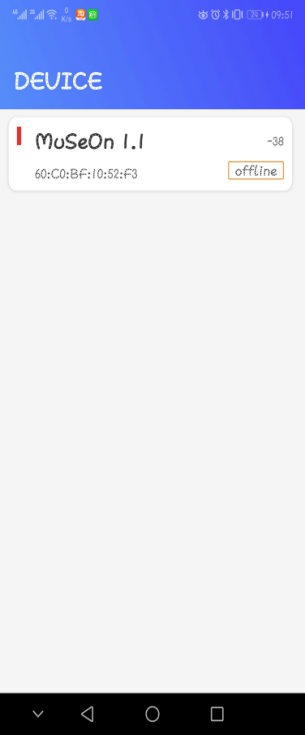
NOTE:

1. WHEN THE DEVICE ENTERS THE UPGRADE MODE, THE RED LIGHT IS ON. IF IT IS NOT UPGRADED WITHIN 30S, THE OPERATION WILL BE EXITED. THE DEFAULT MODE WILL EXIT THE UPGRADE MODE AND THE RED LIGHT WILL BE OFF. AT THIS TIME, PRESS THE RESET BUTTON AGAIN TO INITIALIZE THE DEVICE AND RE-ENTER THE UPGRADE MODE.

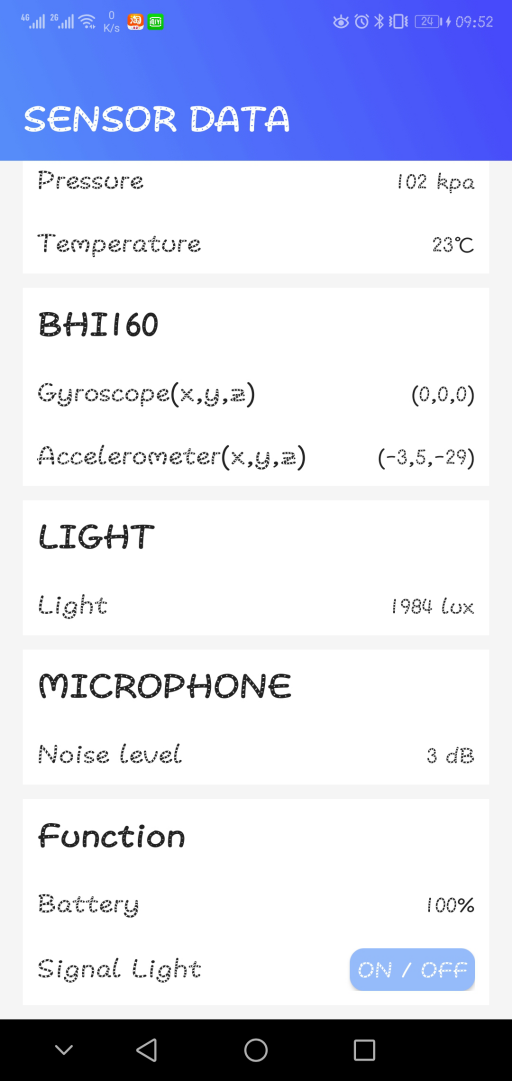
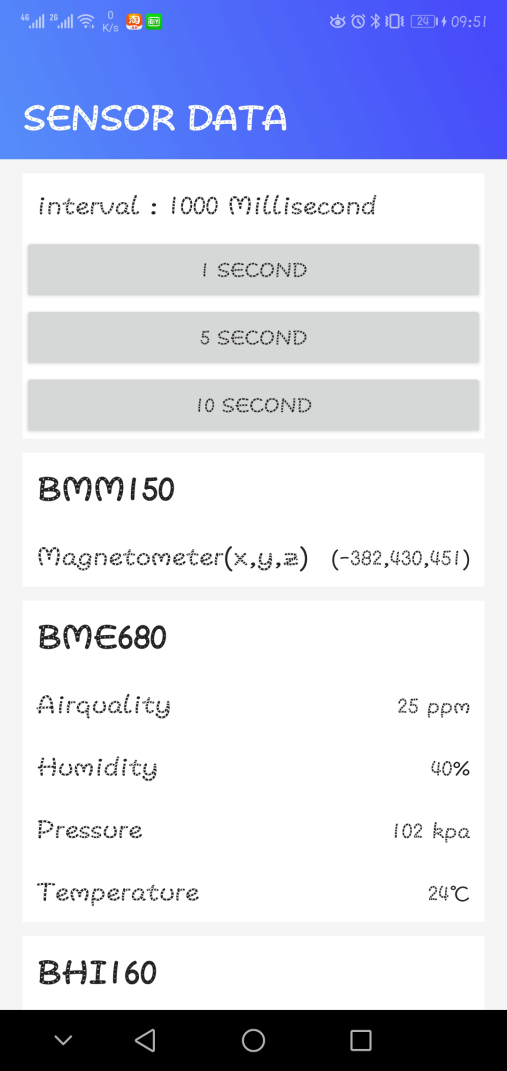
2. OTA UPGRADE IS RECOMMENDED ON MOBILE DEVICES BT 4.2 AND ABOVE.

1. READING THE SENSOR’S DATA IN THE APP.

CLICK THE “SENSOR DATA” PAGE TO START SEARCHING, CONNECT THE “MUSEON”DEVICE, (THE SENSOR DEVICE SHOULD BE UNDER THE WAKE MODE, YOU CAN SHORT PRESS THE’ PWR’ BUTTON TO WAKE UP THE DEVICE)



1. AFTER CONNECTING THE MUSEON 1.1, THEN YOU CAN PULL / READ ALL THE SENSOR DATA.



**NOTE:**

1. THE PAGE CAN VIEW MAGNETOMETER, AIR QUALITY, HUMIDITY, PRESSURE, TEMPERATURE, GYROSCOPE, ACCELEROMETER, LIGHT, NOISE LEVEL, BATTERY PARAMETERS. THE ON/OFF BUTTON OF THE SIGNAL LIGHT CAN BE USED TO TURN ON/OFF LIGHT ON THE DEVICE
2. WHEN THE TEMPERATURE EXCEEDS 30 °C. THERE WILL BE AN ALARM PROMPT.

1. YOU CAN PRESS AND HOLD THE ALARM BUTTON ON THE DEVICE FOR MORE THAN 5 SECONDS, THE APP WILL HAVE AN ALARM PROMPT.

4. WHEN THE RESET BUTTON IS PRESSED AND THE DEVICE IS RESET, PRESS THE WAKE-UP BUTTON ON THE DEVICE TO WAKE UP THE DEVICE AND CONTINUE CONNECTING.

1. MuSeOn 1.1 + DB4, base Linux + Phyton Script
2. Turn on the DB4 based on Debian OS.

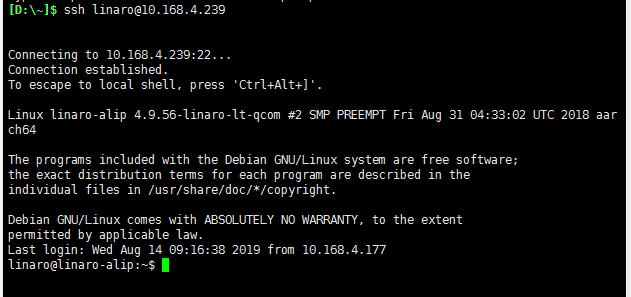
Login from LAN

ssh linaro@<board\_ip>

Username:linaro

Password:linaro

Notice:the board ip you can get from your router DHCP list or DB4 HDMI



2.Use command to setup python3 environment

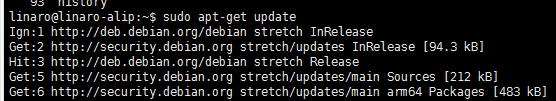
sudo apt-get update

sudo apt-get install python3-pip

sudo pip3 install setuptools

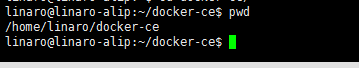
sudo pip3 install pygatt

sudo pip3 install pexpect



3.Setup Docker

Copy the folder  into board. The demo board has already exist.



Install command:

cd docker-ce

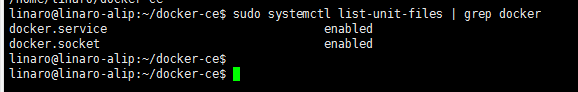
sudo dpkg -i containerd.io\_1.2.4-1\_arm64.deb

sudo dpkg -i docker-ce-cli\_18.09.3~3-0~debian-stretch\_arm64.deb

sudo dpkg -i docker-ce\_18.09.3~3-0~debian-stretch\_arm64.deb

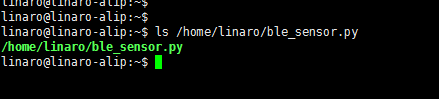
Check commad:

sudo systemctl list-unit-files | grep docker



4.Run demo BLE program

Upload the file ble\_sensor.py into board.The demo board has already exist.



Command:

sudo python3 /home/linaro/ble\_sensor.py

