

SparkFun LPS25HB Pressure Sensor

We use the [SparkFun LPS25HB Pressure Sensor](#).

Arduino IDE

We use the [SparkFun LPS25HB Library](#).

Open Arduino IDE

```
$: sudo arduino
> Select Sketch>Include Library>Manage Libraries...
> Select SparkFun LPS25HB Pressure Sensor Library
> Click 1.1.0 Install
$: sudo chmod -R +666 /opt/SparkFun_RedBoard_Turbo
```

An already downloaded copy of the SparkFun LPS25HB library (used by installation script and Dockerfile) can be found here:

sw/SparkFun_RedBoard_Turbo/SparkFun_LPS25HB_Pressure_Sensor/
SparkFun_LPS25HB_Arduino_Library-master.zip

The library is installed under

/opt/SparkFun_RedBoard_Turbo/Arduino/libraries/**SparkFun_LPS25HB_Pressure_Sensor_Library**.

Read Pressure (air)

We communicate with the SparkFun LPS25HB Pressure Sensor over I2C using **address 0x5D**.

Read Pressure

```
$: sudo cp -r sw/SparkFun_RedBoard_Turbo/SparkFun_LPS25HB_Pressure_Sensor/read_pressure
/opt/SparkFun_RedBoard_Turbo/Arduino
$: sudo chmod -R +666 /opt/SparkFun_RedBoard_Turbo
```

Arduino IDE

```
$: arduino
> File>Sketchbook>read_pressure
> Click Serial Monitor icon
> Select 115200 baud
> Click Upload icon (until flash is successful)
```

SparkFun LPS25HB Pressure Sensor

Pressure [hPa]: 1010.65, Temperature [C]: 28.09

Script

Run as part of the Sensor Suite installation script

sw/NVIDIA_Jetson_Xavier_NX/Scripts\$ bash **install-7-Sensor_Suite.sh**

Dockerfile

Part of the Sensor Suite Dockerfile

sw/NVIDIA_Jetson_Xavier_NX/Docker/**Dockerfile-7-Sensor_Suite**