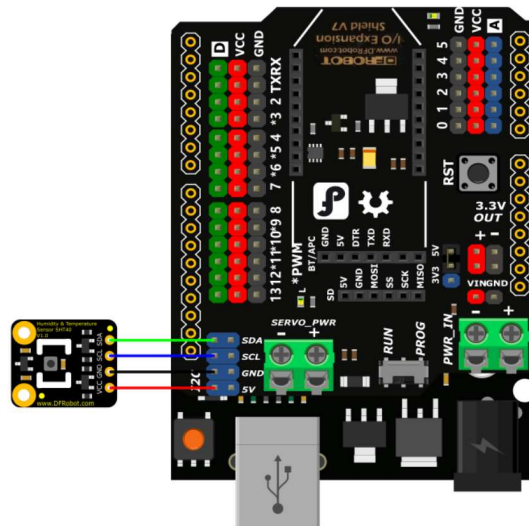1. Test Sensor_SHT40.ino

Connect the SHT40 sensor to the Arduino by referring to the following wiring diagram and upload the Sensor_SHT40.ino from the current folder to the Arduino.

When data appears normally in the serial monitor, the sensor is normal. The sensor can be connected to a Beacon for testing.
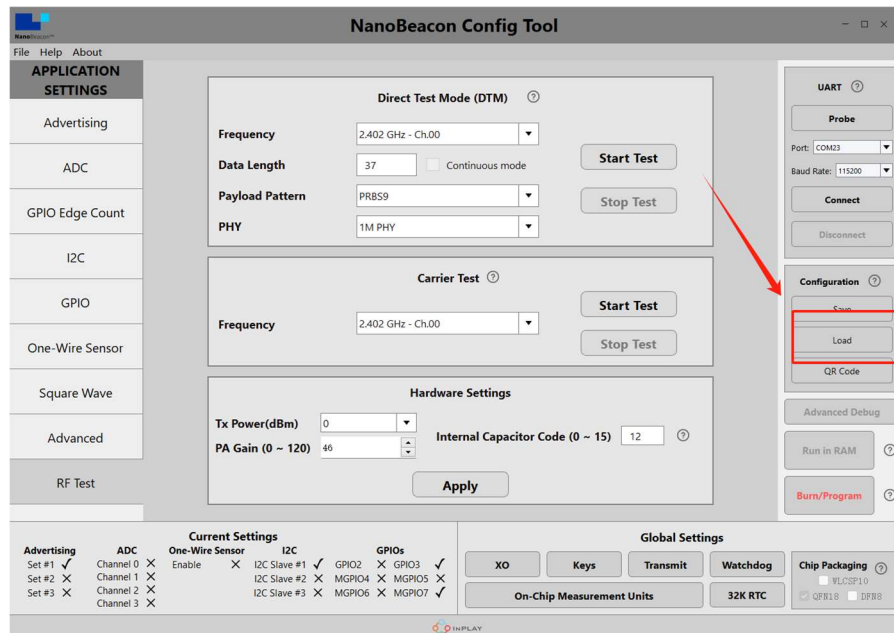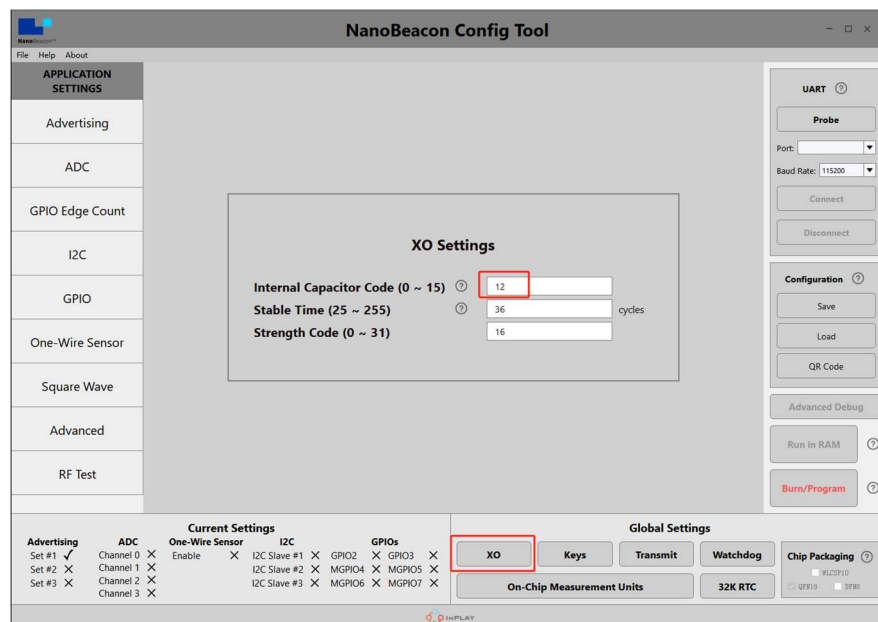
2. Burning Beacon and Connecting Sensor

Please use a USB-TTL converter to burn the .cfg file into the Beacon.

NanoBeacon Config Tool can Load the SHT40.cfg file in this folder.

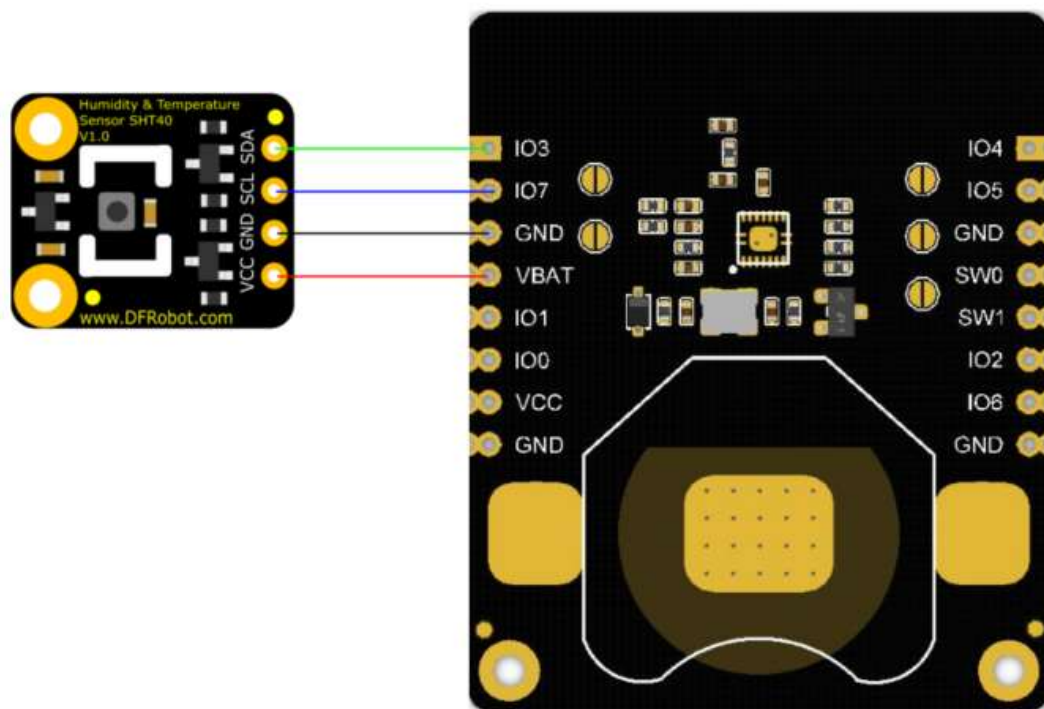
Check that the XO capacitor configuration is 12

Please refer to Beacon's wiki for the burn-in process:

https://wiki.dfrobot.com.cn/_SKU_TEL0168_Fermion_BLE_%E4%BC%A0%E6%84

%9F%E5%99%A8%E4%BF%A1%E6%A0%87#target_4

After the burn-in is complete, refer to the diagram below to connect the

Beacon and the sensor.

Note: Our .cfg example file defaults to SCL->GPIO7, SDA->GPIO3.

3. Upload ESP32 code and get readings

Upload the Beacon_SHT40.ino in the same directory to the ESP32

motherboard.

And power up the Beacon and sensors with optional CR2032 coin cell battery,

or VCC and GND input 3.3V.

You will see the relevant data printed in the serial monitor.

```
Scanning...
Device name: SHT40
strManufacturerData: 8 [5][5][67][9D][F][82][60][0]
TemperatureData:25.83℃
HumidityData:57.66%
------------------
Device name: SHT40
strManufacturerData: 8 [5][5][67][A2][E4][82][54][0]
TemperatureData:25.84℃
HumidityData:57.64%
```