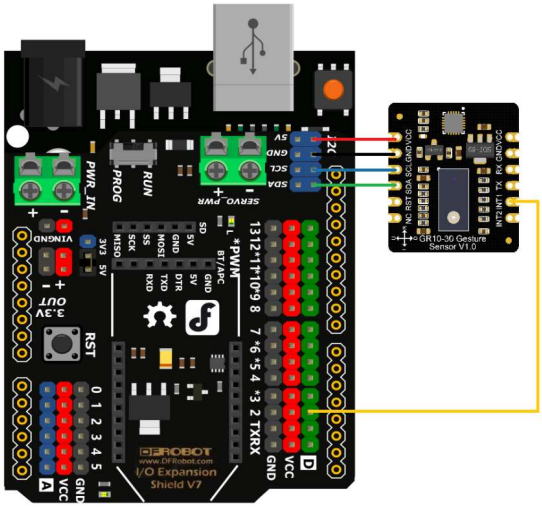
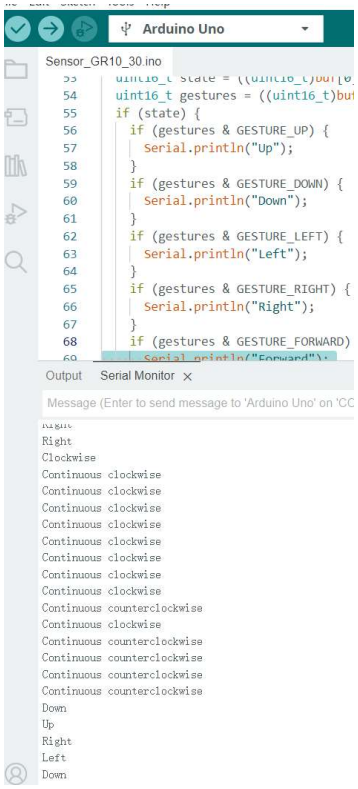
1. Test Sensor_GR10_30.ino

Connect the GR10_30 sensor to the Arduino as shown in the following wiring diagram and upload the Sensor_GR10_30.ino from the current folder to the Arduino.



When a normal reading appears in the serial monitor, the sensor is normal.

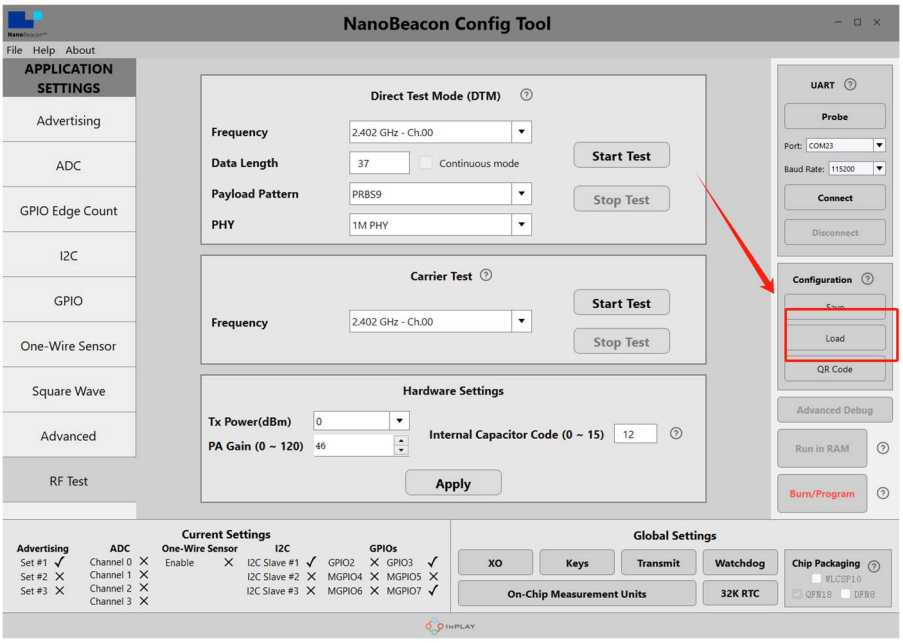
The sensor can be connected to a Beacon for testing.



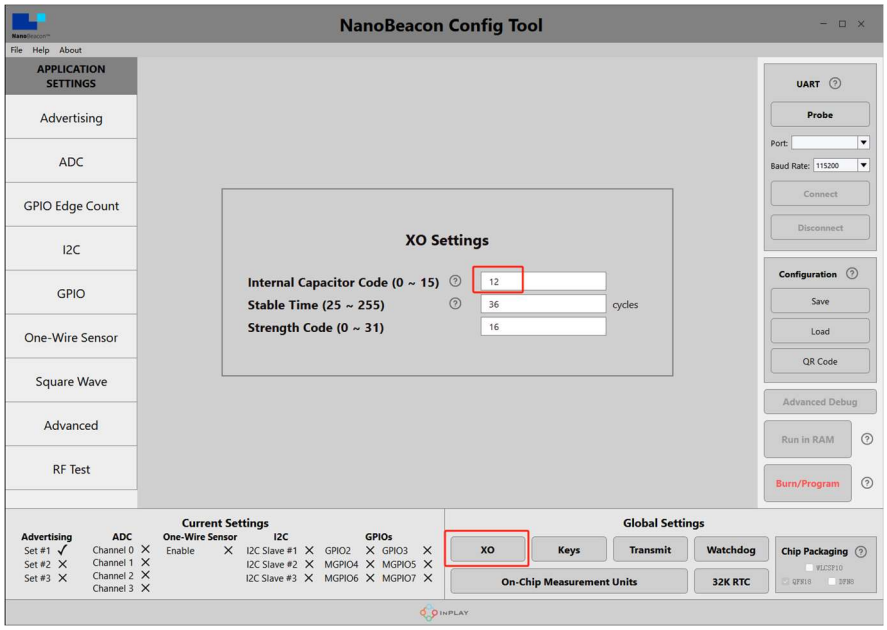
2. Burning Beacon and Connecting sensor

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

NanoBeacon Config Tool can load the GR10_30.cfg file in this folder.



Check that the XO capacitor configuration is 12

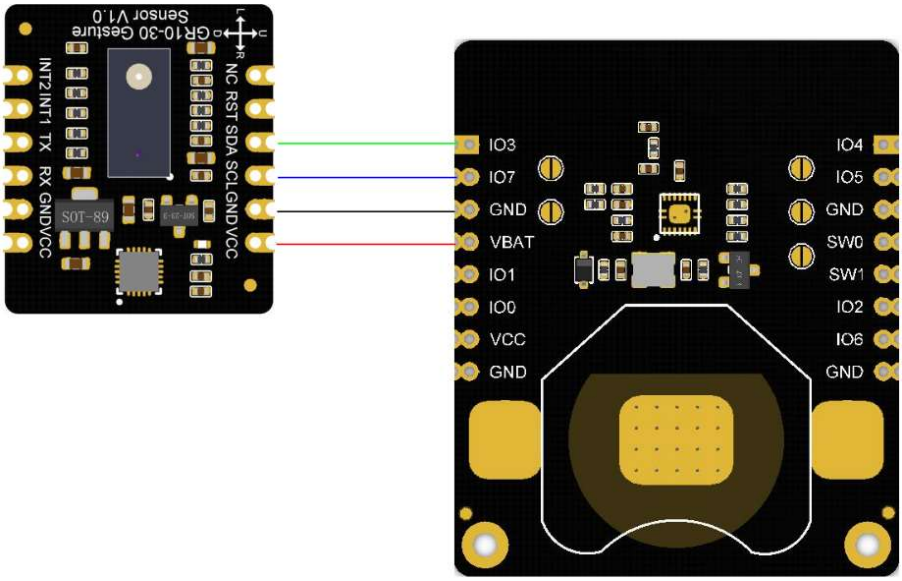


Please refer to Beacon's wiki for the burn-in process:

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 following diagram to connect the Beacon and the sensors.

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



3. Upload ESP32 code and get readings

Upload the Beacon_GR10_30.ino in the same directory to the ESP32.

And power up the Beacon and sensors with either a CR2032 coin cell battery or 3.3V input from VCC and GND.

You will see the relevant data printed in the serial monitor