

```
1
2 #include <SPI.h>
3 #include <LoRa.h>
4
5 // define the pins used by the LoRa transceiver module
6 #define ss 10
7 #define rst 9
8 #define dio0 2
9 #define pirPin 3 // Pin for PIR sensor
10
11 void setup() {
12     // initialize serial communication
13     Serial.begin(9600);
14     while (!Serial);
15
16     // setup LoRa transceiver module
17     Serial.println("LoRa Node with Sensor Starting...");
18     LoRa.setPins(ss, rst, dio0);
19
20     if (!LoRa.begin(915E6)) {
21         Serial.println("Starting LoRa failed!");
22         while (1);
23     }
24     Serial.println("LoRa Node with Sensor Started");
25
26     // initialize the PIR sensor pin as an input
27     pinMode(pirPin, INPUT);
28 }
29
30 void loop() {
31     // check the PIR sensor
32     int sensorValue = digitalRead(pirPin);
33
34     // send the sensor value via LoRa
35     LoRa.beginPacket();
36     LoRa.print("PIR Value: ");
37     LoRa.print(sensorValue);
38     LoRa.endPacket();
39
40     // wait for a second before next reading
41     delay(1000);
42 }
43
```