

```

1  #include <WiFi.h>
2  #include <SdsDustSensor.h>
3
4  const char* ssid = "your_SSID";
5  const char* password = "your_PASSWORD";
6
7  SdsDustSensor sds(Serial1);
8  const int coPin = 34;
9  const int no2Pin = 35;
10 const int o3Pin = 32;
11 const int vocPin = 33;
12
13 void setup() {
14     Serial.begin(115200);
15     Serial1.begin(9600);
16     WiFi.begin(ssid, password);
17     while (WiFi.status() != WL_CONNECTED) {
18         delay(1000);
19         Serial.println("Connecting to WiFi...");
20     }
21     Serial.println("Connected to WiFi");
22     sds.begin();
23 }
24
25 void loop() {
26     PmResult pm = sds.readPm();
27     int coValue = analogRead(coPin);
28     int no2Value = analogRead(no2Pin);
29     int o3Value = analogRead(o3Pin);
30     int vocValue = analogRead(vocPin);
31
32     if (pm.isOk()) {
33         Serial.print("PM2.5: ");
34         Serial.print(pm.pm25);
35         Serial.print(" PM10: ");
36         Serial.println(pm.pm10);
37     } else {
38         Serial.println("Could not read SDS011 sensor");
39     }
40
41     Serial.print("CO: ");
42     Serial.println(coValue);
43     Serial.print("NO2: ");
44     Serial.println(no2Value);
45     Serial.print("O3: ");
46     Serial.println(o3Value);
47     Serial.print("VOC: ");
48     Serial.println(vocValue);
49
50     delay(10000); // Delay for 10 seconds before next reading
51 }
52

```