

IR SENSOR INTEGRATION WITH ESP8266 & THINGSPEAK

```
#include <ESP8266WiFi.h>

#include <ThingSpeak.h>

// Define your WiFi credentials
const char* ssid = "MOWA BROH OFFICIAL";
const char* password = "ilovegym";

// Define your ThingSpeak credentials
const char* thingSpeakApiKey = "ZFGCIOZB91ZEO4UH";

// Define the pin connection for the IR sensor
const int irPin = A0; // GPIO5

WiFiClient client;

void setup() {
  Serial.begin(115200);

  // Connect to Wi-Fi
  WiFi.begin(ssid, password);
  Serial.print("Connecting to ");
  Serial.print(ssid);
  while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.print(".");
  }
  Serial.println("");
  Serial.print("WiFi connected, IP address: ");
```

```
Serial.println(WiFi.localIP());

// Initialize ThingSpeak
ThingSpeak.begin(client);

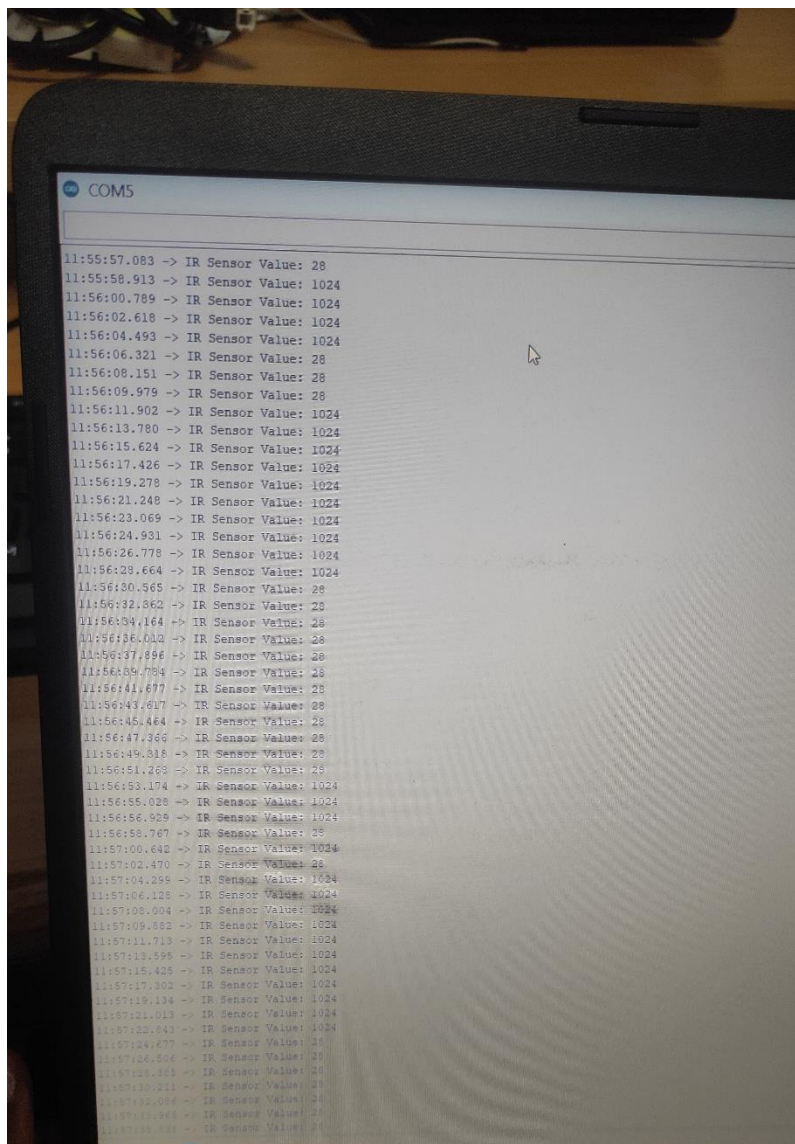
// Set IR sensor pin
pinMode(irPin, INPUT);
}

void loop() {
  // Read the value from the IR sensor
  int irValue = analogRead(irPin);

  // Print IR sensor value to serial monitor
  Serial.print("IR Sensor Value: ");
  Serial.println(irValue);

  // Update ThingSpeak with the IR sensor value
  ThingSpeak.writeField(2576408, 1, irValue, thingSpeakApiKey);

  // Wait for 20 seconds before next update
  delay(1000);
}
```



```
COM5
11:55:57.083 -> IR Sensor Value: 28
11:55:58.913 -> IR Sensor Value: 1024
11:56:00.789 -> IR Sensor Value: 1024
11:56:02.618 -> IR Sensor Value: 1024
11:56:04.493 -> IR Sensor Value: 1024
11:56:06.321 -> IR Sensor Value: 28
11:56:08.151 -> IR Sensor Value: 28
11:56:09.979 -> IR Sensor Value: 28
11:56:11.902 -> IR Sensor Value: 1024
11:56:13.780 -> IR Sensor Value: 1024
11:56:15.624 -> IR Sensor Value: 1024
11:56:17.426 -> IR Sensor Value: 1024
11:56:19.278 -> IR Sensor Value: 1024
11:56:21.248 -> IR Sensor Value: 1024
11:56:23.069 -> IR Sensor Value: 1024
11:56:24.931 -> IR Sensor Value: 1024
11:56:26.778 -> IR Sensor Value: 1024
11:56:28.664 -> IR Sensor Value: 1024
11:56:30.565 -> IR Sensor Value: 29
11:56:32.362 -> IR Sensor Value: 28
11:56:34.164 -> IR Sensor Value: 28
11:56:36.022 -> IR Sensor Value: 28
11:56:37.896 -> IR Sensor Value: 28
11:56:39.784 -> IR Sensor Value: 28
11:56:41.677 -> IR Sensor Value: 28
11:56:43.577 -> IR Sensor Value: 28
11:56:45.464 -> IR Sensor Value: 28
11:56:47.366 -> IR Sensor Value: 28
11:56:49.318 -> IR Sensor Value: 28
11:56:51.268 -> IR Sensor Value: 28
11:56:53.174 -> IR Sensor Value: 1024
11:56:55.028 -> IR Sensor Value: 1024
11:56:56.928 -> IR Sensor Value: 1024
11:56:58.767 -> IR Sensor Value: 28
11:57:00.642 -> IR Sensor Value: 1024
11:57:02.470 -> IR Sensor Value: 28
11:57:04.299 -> IR Sensor Value: 1024
11:57:06.128 -> IR Sensor Value: 1024
11:57:08.004 -> IR Sensor Value: 1024
11:57:09.882 -> IR Sensor Value: 1024
11:57:11.713 -> IR Sensor Value: 1024
11:57:13.595 -> IR Sensor Value: 1024
11:57:15.425 -> IR Sensor Value: 1024
11:57:17.302 -> IR Sensor Value: 1024
11:57:19.134 -> IR Sensor Value: 1024
11:57:21.013 -> IR Sensor Value: 1024
11:57:22.843 -> IR Sensor Value: 1024
11:57:24.677 -> IR Sensor Value: 28
11:57:26.506 -> IR Sensor Value: 28
11:57:28.353 -> IR Sensor Value: 28
11:57:30.211 -> IR Sensor Value: 28
11:57:32.054 -> IR Sensor Value: 28
11:57:33.903 -> IR Sensor Value: 28
11:57:35.744 -> IR Sensor Value: 28
```

