

Gas Sensors Sensors Electronics

## How do I send data on ThingSpeak for an MQ135 gas sensor?

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**Amarjith Valanchery**, Embedded System Design Engineer

Updated April 21, 2018



You can send MQ135 gas sensor data on Thingspeak. In order to send data on thingspeak, you have to create a thingspeak account.

### Create thingspeak account

**Step :1** sign Up things speak

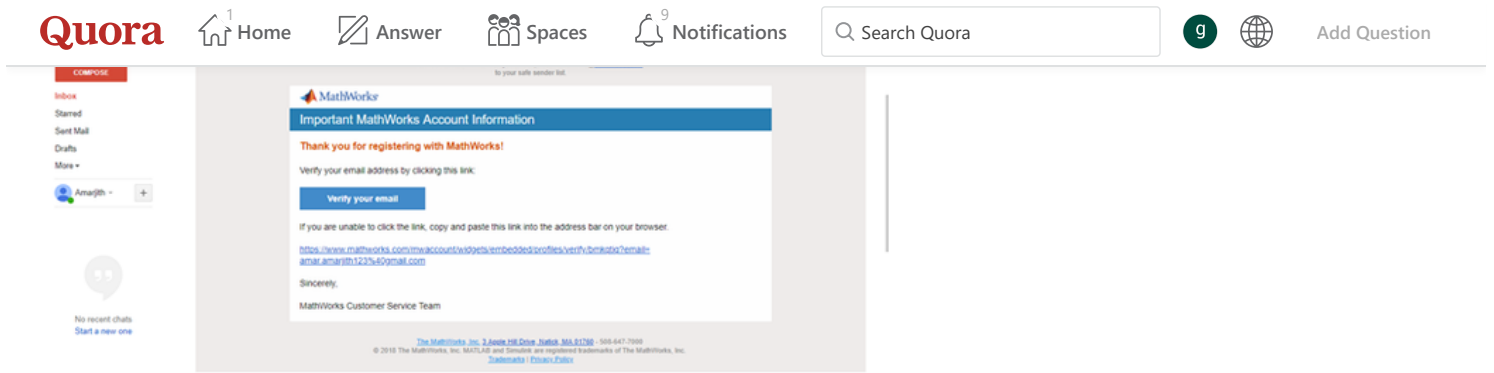
[https://thingspeak.com/users/sign\\_up](https://thingspeak.com/users/sign_up)

**Step:2**

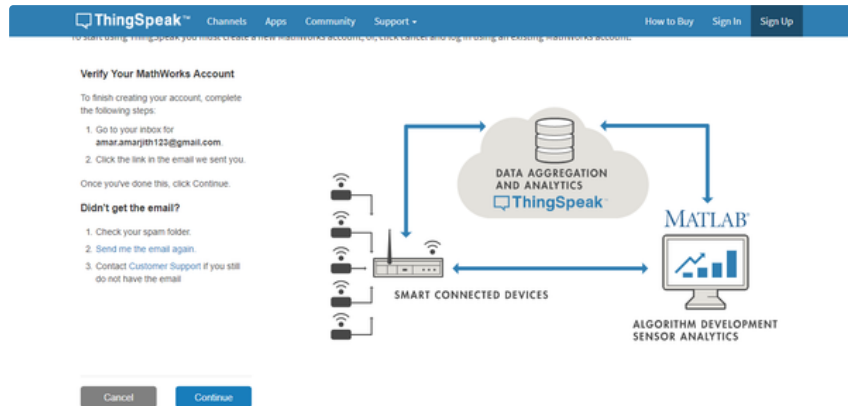
Fill out all fields

**Step: 3**

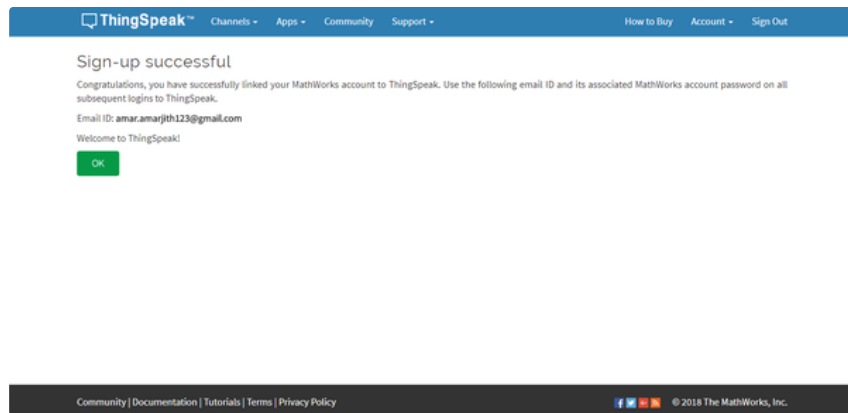
Verify email account

**Step:4**

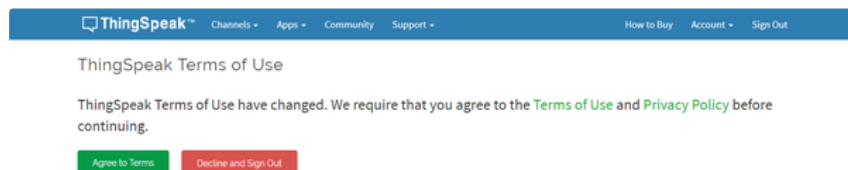
After verification, click on continue

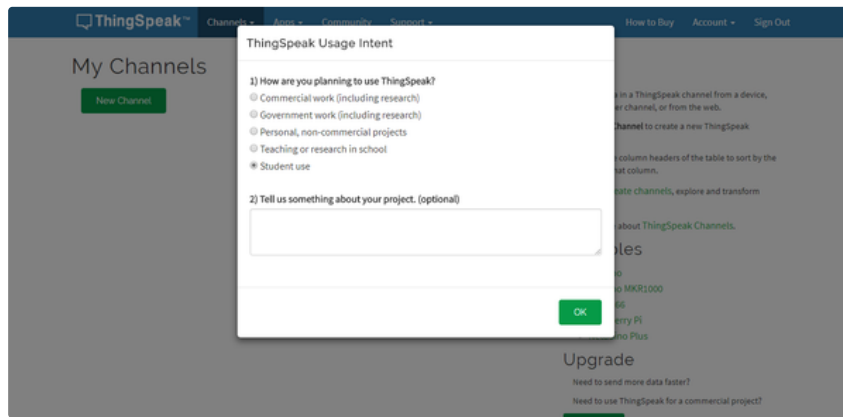
**Step:5**

OK

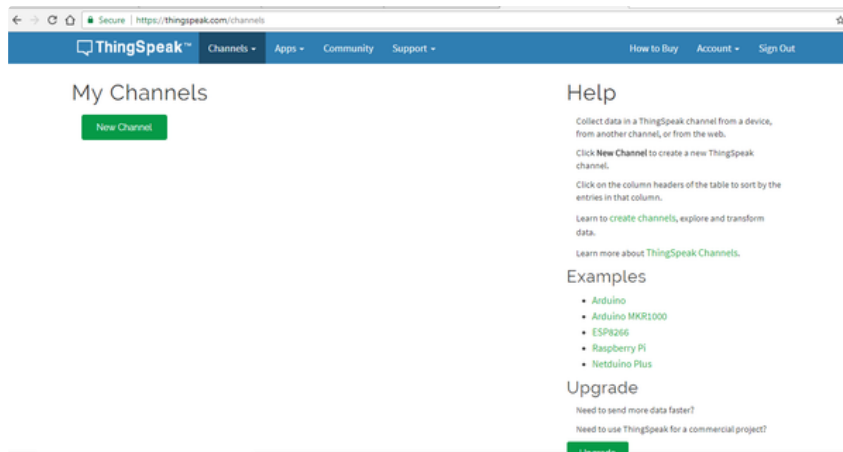
**Step:6**

Agree to terms

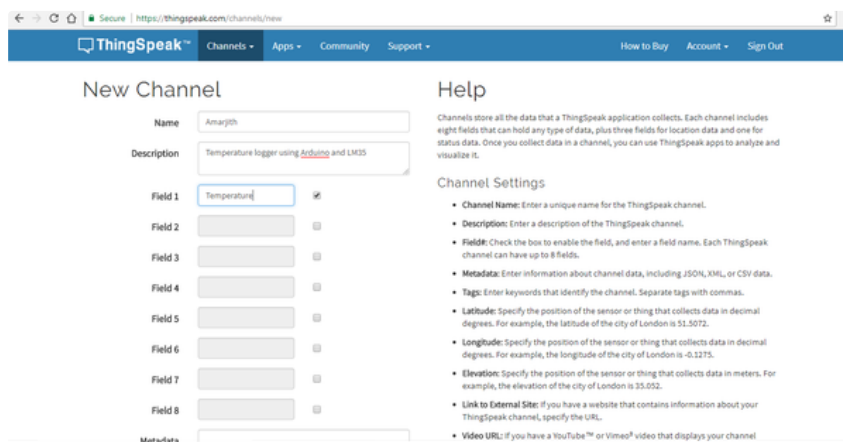


**Step : 8**

Wait for this window

**Step:9**

Create new channel

**Step:10**

Save channel

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Link to External Site

Elevation

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[Save Channel](#)

See [Tutorial: ThingSpeak and MATLAB](#) for an example of measuring dew point from a weather station that acquires data from an Arduino® device.

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**Step:11**

Make channel public

ThingSpeak™ Channels Apps Community Support How to Buy Account Sign Out

Amarjith Channel ID: 431583 Author: amarjith12345 Access: Public Temperature logger using Arduino and LM35

Private View Public View **Channel Settings** Sharing API Keys Data Import / Export

Channel Sharing Settings

☐ Keep channel view private

☒ Share channel view with everyone

☐ Share channel view only with the following users:

Email Address  [Add User](#)

Help

ThingSpeak allows you to control who can view the data in your channel, irrespective of the settings on this tab, reading data from or writing data to the fields of a channel requires the appropriate API key for the channel.

Channel Sharing Settings

- **Keep channel view private:** Selecting this option keeps your channel private. Only you will be able to see the channel view.
- **Share channel view with everyone:** Selecting this option makes the public view of your channel viewable by anyone browsing the ThingSpeak website.
- **Share channel view only with the following users:** Selecting this option shares the private view of your channel only with specific ThingSpeak users.

**Step:12**

Copy "write apikey" and then paste it in your program(later)

Secure | https://thingspeak.com/channels/431583/api-keys

ThingSpeak™ Channels Apps Community Support How to Buy Account Sign Out

Amarjith Channel ID: 431583 Author: amarjith12345 Access: Private Temperature logger using Arduino and LM35

Private View Public View Channel Settings **Sharing** API Keys Data Import / Export

Write API Key

Key

[Generate New Write API Key](#)

Read API Keys

Key

Help

API keys enable you to write data to a channel or read data from a private channel. API keys are auto-generated when you create a new channel.

API Keys Settings

- **Write API Key:** Use this key to write data to a channel. If you feel your key has been compromised, click [Generate New Write API Key](#).
- **Read API Keys:** Use this key to allow other people to view your private channel feeds and charts. Click [Generate New Read API Key](#) to generate an additional read key for the channel.
- **Note:** Use this field to enter information about channel read keys. For example, add notes to keep track of users with access to your channel.

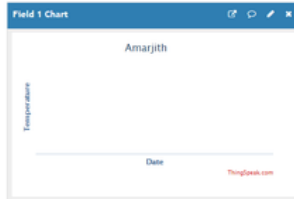
API Requests

**Step:13**

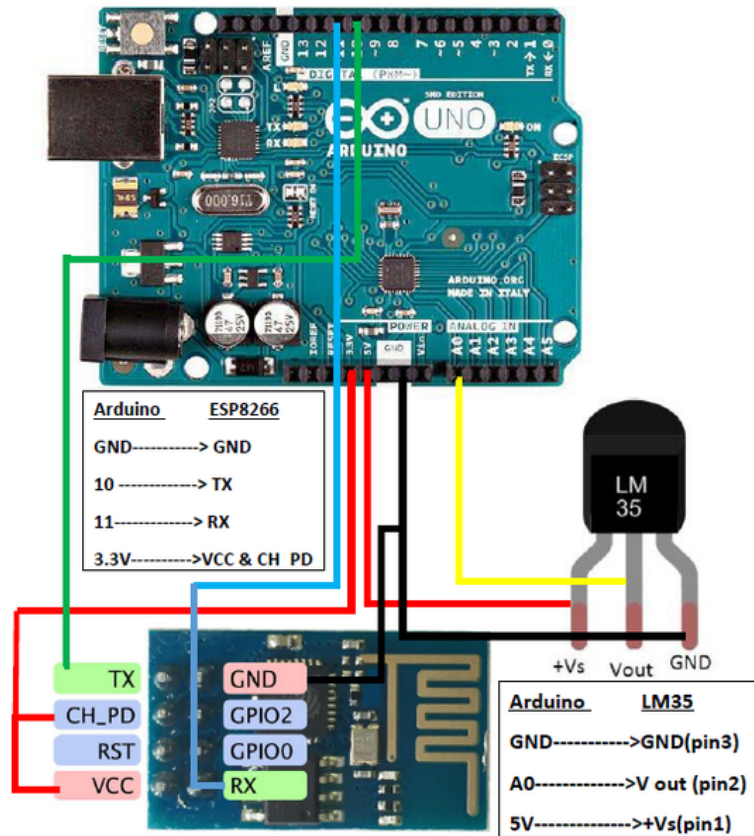
Open private view

## Channel Stats

Created: less than a minute ago  
 Updated: less than a minute ago  
 Entries: 0

**Step:13**

Setup your hardware Microcontroller, ESP8266 and MQ135 (In the below example a temperature sensor is connected to arduino with esp8266. Replace temperature sensor with MQ135 and arduino with your microcontroller )

**Step:13**

Write code and program microcontroller. Here in this example a code is written to update LM 35 temperature sensor data on thingspeak.

```
#include <SoftwareSerial.h>
```

```
#include <stdlib.h>
```

```
/* change with your data*/
```

```
String apiKey = "HF5OCR8DE47HRTT0"; // Change with your apikey
```

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Enter password ———— email@domain.tld // Change with your own password

/\*\*\*\*\*

```
int LM35InputPin = 0; //select the input pin for temperature sensor LM35
```

```
SoftwareSerial ser(10, 11); // RX, TX
```

```
int SensorVal = 0; // variable to store the value from the sensor
```

```
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  ser.begin(115200);
```

```
  ser.println("AT");
```

```
  delay(5000);
```

```
  if(ser.find("OK"))
```

```
  {
```

```
    Serial.println("AT response is OK");
```

```
    while(connectWiFi() == false);
```

```
  }
```

```
}
```

```
void loop()
```

```
{
```

```
  SensorVal = analogRead(LM35InputPin);
```

```
  float TempVal = (0.0049*SensorVal)*100;
```

```
  char buf[10];
```

```
  String strTemp = dtostrf(TempVal, 4, 1, buf);
```

```
  Serial.println(strTemp);
```

```
  String cmd = "AT+CIPSTART=\"TCP\", \"184.106.153.149\",80";
```

```
  ser.println(cmd);
```

```
  delay(2000);
```

```
  if(ser.find("Error"))
```

```
  {
```

```
    Serial.println("AT+CIPSTART error");
```

```
    return;
```

```
  }
```

```
  String SndStr = "GET /update?api_key=";
```

```
  SndStr += apiKey;
```

```
  SndStr += "&field1=";
```

```
  SndStr += String(strTemp);
```

```
  SndStr += "\r\n\r\n";
```

```
  cmd = "AT+CIPSEND=";
```

```

ser.print(cmd);
delay(5000);
if(ser.find(">"))
{
ser.print(SndStr);
}
else
{
ser.println("AT+CIPCLOSE");
Serial.println("AT+CIPCLOSE");
}
delay(20000);
}
boolean connectWiFi(void)
{
ser.println("AT+CWMODE=3");
delay(5000);
String cmd="AT+CWJAP=\"";
cmd+=ssid;
cmd+="\"\\\"";
cmd+=password;
cmd+="\"";
ser.println(cmd);
delay(2000);
if(ser.find("OK"))
{
Serial.println("wifi connection OK");
return true;
}else
{
Serial.println("wifi connection error");
return false;
}
}
}

```

**Step : 14**

Power up the hardware and upload code to the microcontroller.

**Step : 15**

Monitor live update on thingspeak.

**Related Questions**

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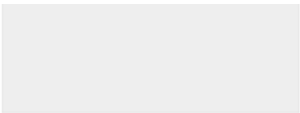
Field 1 Chart

Channel Status Updates

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5





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How can I make an H2S gas sensor at home?

How do I calibrate gas sensors?

What is the output of an MQ135 sensor?

Can I use the MQ-2 gas sensor to know the quantity of gas present inside a gas storage tank? If not, what sensor or tool can I use to measure the amount for my lab-scale biogas...


How can I calculate the detection limit for a gas sensor?

Is there a sensor to detect wetness?

How far is the detection range of MQ135 (Air Quality Sensor) and DSM501 (Dust Sensor)?

Which sensor is used to detect LPG gas?



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How can I get the concentration of gases in terms of PPM using gas sensors like mq135,mq3,etc?

What is a MEMS gas sensor, and what is its impact in our daily life?

What is the application of LPG gas leakage sensor?