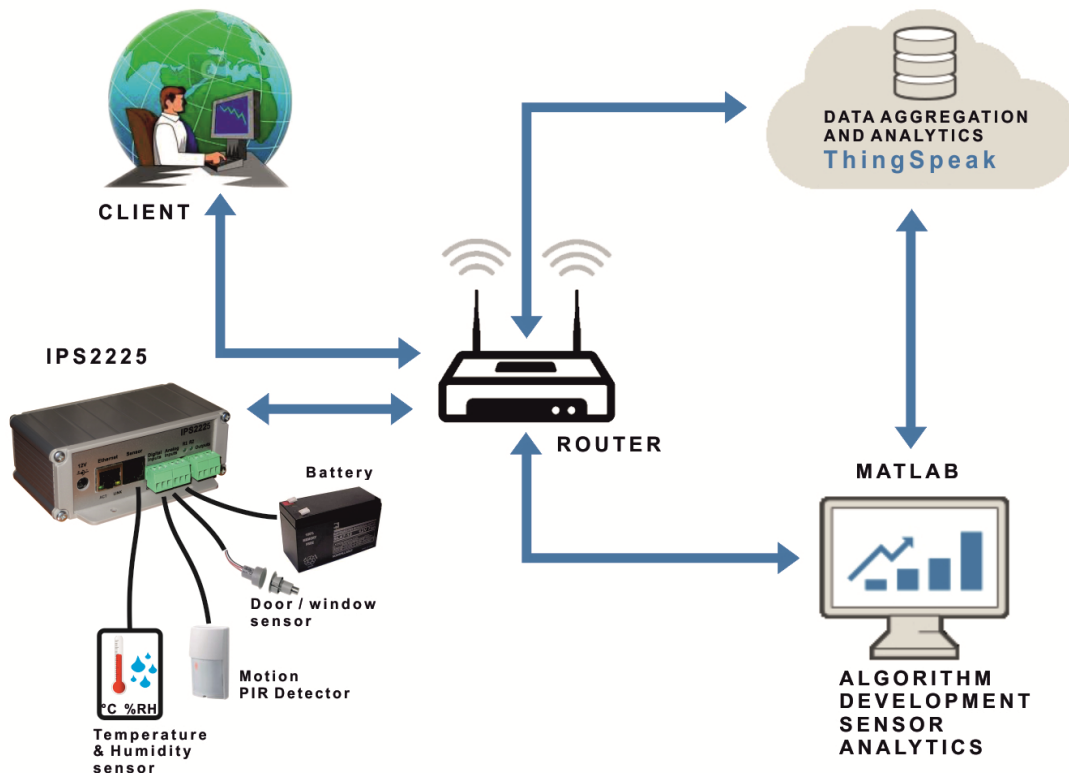


# How to Post data from IPS2225 to ThingSpeak cloud

## Learn More About ThingSpeak

ThingSpeak enable controller IPS2225 to send data to the cloud where it is stored in either a private or a public channel. ThingSpeak allows to aggregate, analyze live data streams in the cloud and visualize as charts.



## ThingSpeak Key Features

Some of the key capabilities of ThingSpeak include the ability to:

- Easily configure IPS2225 to send data to ThingSpeak.
- Visualize your sensor data in real-time as charts.
- Use the power of MATLAB to make sense of your IoT data
- Run your IoT analytics automatically based on schedules or events
- Prototype and build IoT systems without setting up servers or developing web software.
- Smartphone client application.

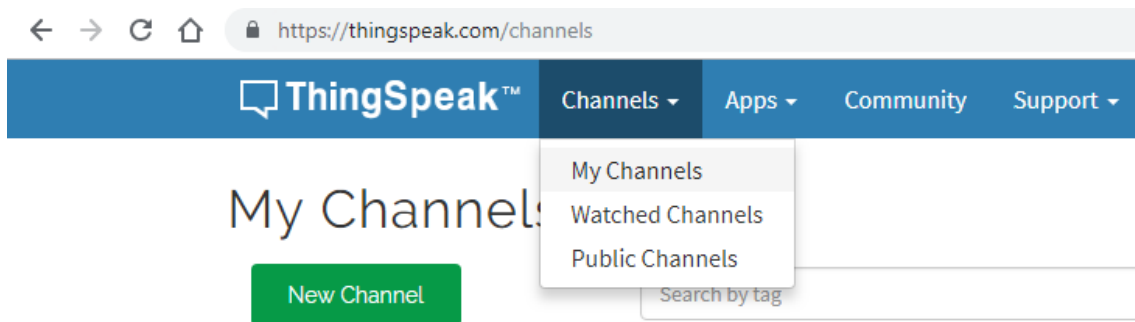
## Creating an account in Mathworks

It is free to sign up for ThingSpeak.

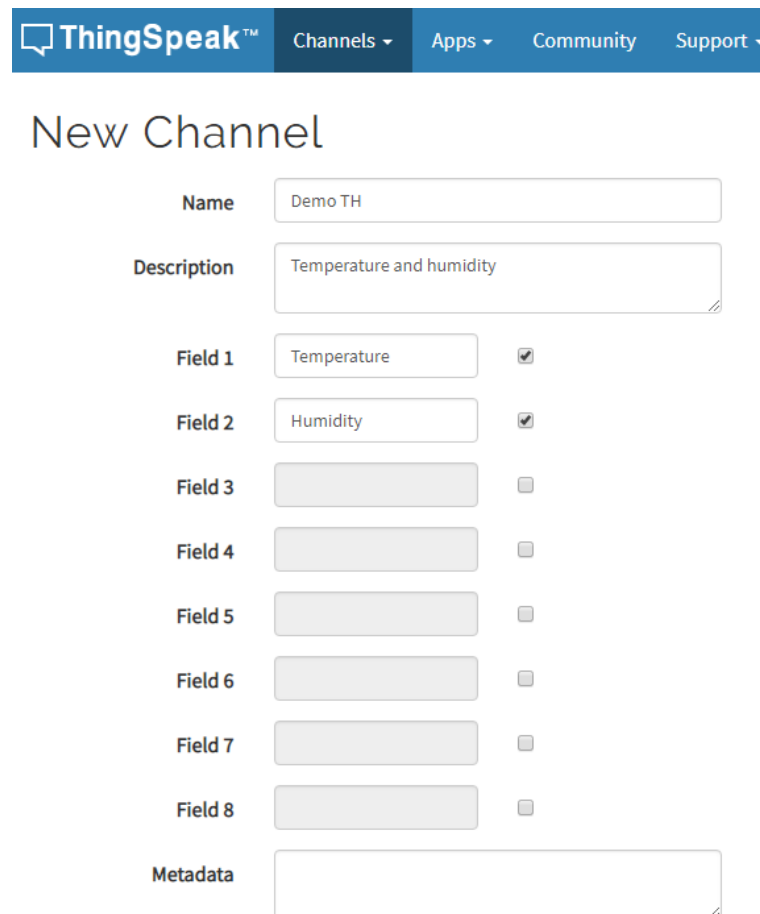
To start using ThingSpeak must create a new MathWorks account. The account requires an email, username, password, country of origin and the names of the user.

## Creating a new channel

Select menu Channels -> My channels and click on the button "New Channel".



The minimum information required is a channel name and the name of the fields to be used.

A screenshot of the 'New Channel' form on the ThingSpeak website. The form is titled 'New Channel' and includes the following fields:

- Name:** A text input field containing 'Demo TH'.
- Description:** A text area containing 'Temperature and humidity'.
- Field 1:** A text input field containing 'Temperature' with a checked checkbox.
- Field 2:** A text input field containing 'Humidity' with a checked checkbox.
- Field 3:** An empty text input field with an unchecked checkbox.
- Field 4:** An empty text input field with an unchecked checkbox.
- Field 5:** An empty text input field with an unchecked checkbox.
- Field 6:** An empty text input field with an unchecked checkbox.
- Field 7:** An empty text input field with an unchecked checkbox.
- Field 8:** An empty text input field with an unchecked checkbox.
- Metadata:** A text area at the bottom of the form.

Every created channel has identification number and API keys - Write API key and Read API key.

As the controller IPS2225 post data to the cloud it is need to use Write API key.

Controller IPS2225 support 2 channels and 5 fields for every channel. Every field can be related with any sensor, analog input, digital input or relay.

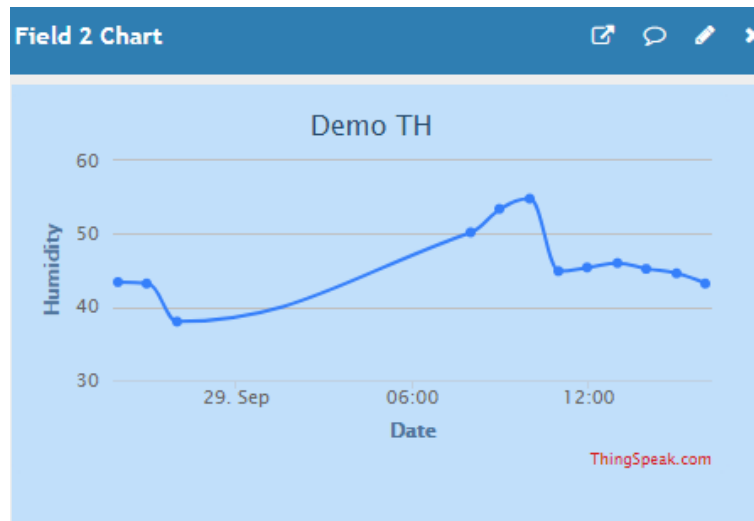
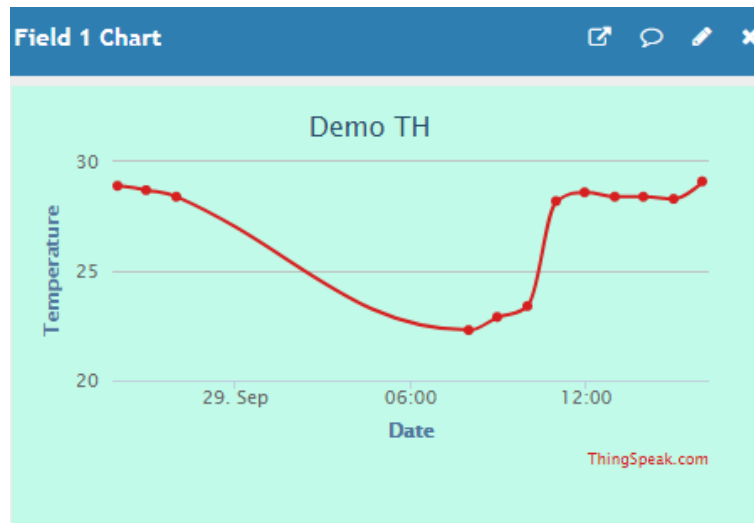
## Example how to set the controller IPS2225

The screenshot displays the configuration page for an IPS2225 IP Sensor. The page has a dark blue header with the title "IPS2225 - IP Sensor" and a navigation menu with items: STATUS, NETWORK, SYSTEM, ACCOUNT, SNMP, EMAIL, SENSORS, INPUT/OUTPUT, DDNS, CLOUD, and UPDATE. The "CLOUD" item is highlighted in red.

The main content area is divided into two sections:

- ThingSpeak Settings:** This section includes a sidebar with "ThingSpeak Enable", "Server", "Period (sec)", and "Connect on alarm". The main area shows a checked checkbox for "ThingSpeak Enable", a text input for "Server" containing "api.thingspeak.com/update", a text input for "Period (sec)" containing "600", and a checked checkbox for "Connect on alarm".
- Channel 1:** This section includes a sidebar with "Enable", "Channel ID", "API key", "Field 1", "Field 2", "Field 3", "Field 4", "Field 5", "Test channel", and "Test channel result". The main area shows a checked checkbox for "Enable", a text input for "Channel ID" containing "579054", a text input for "API key" containing "K6VIOV91SG3ARD0G", five dropdown menus for "Field 1" through "Field 5" (with "Field 1" set to "Sensor 1 Temperature" and others to "none"), a "Test" button, and a "Test channel result" field.

## Visualization example from ThingSpeak website



# Visualization example from mobile application ThingView

