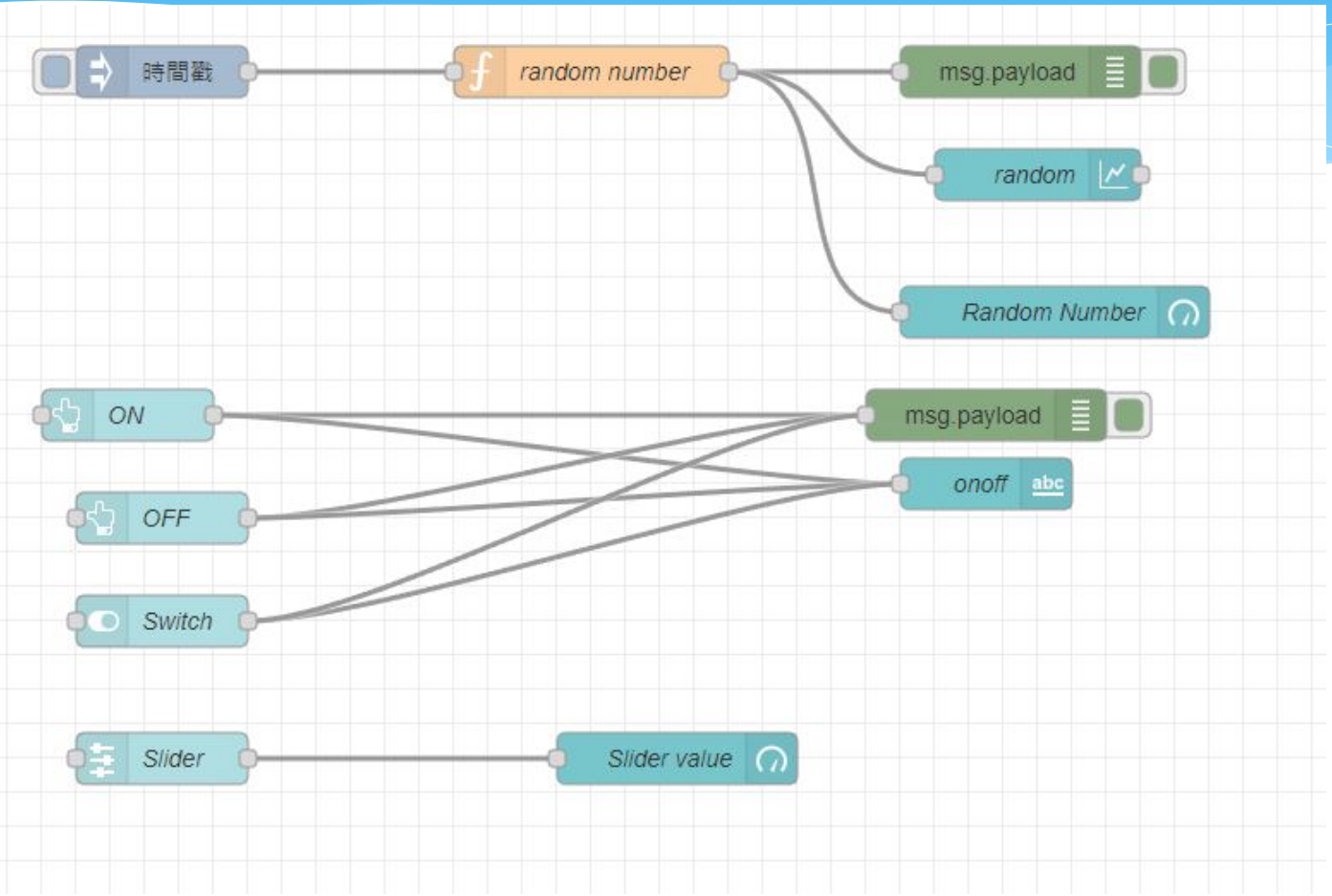
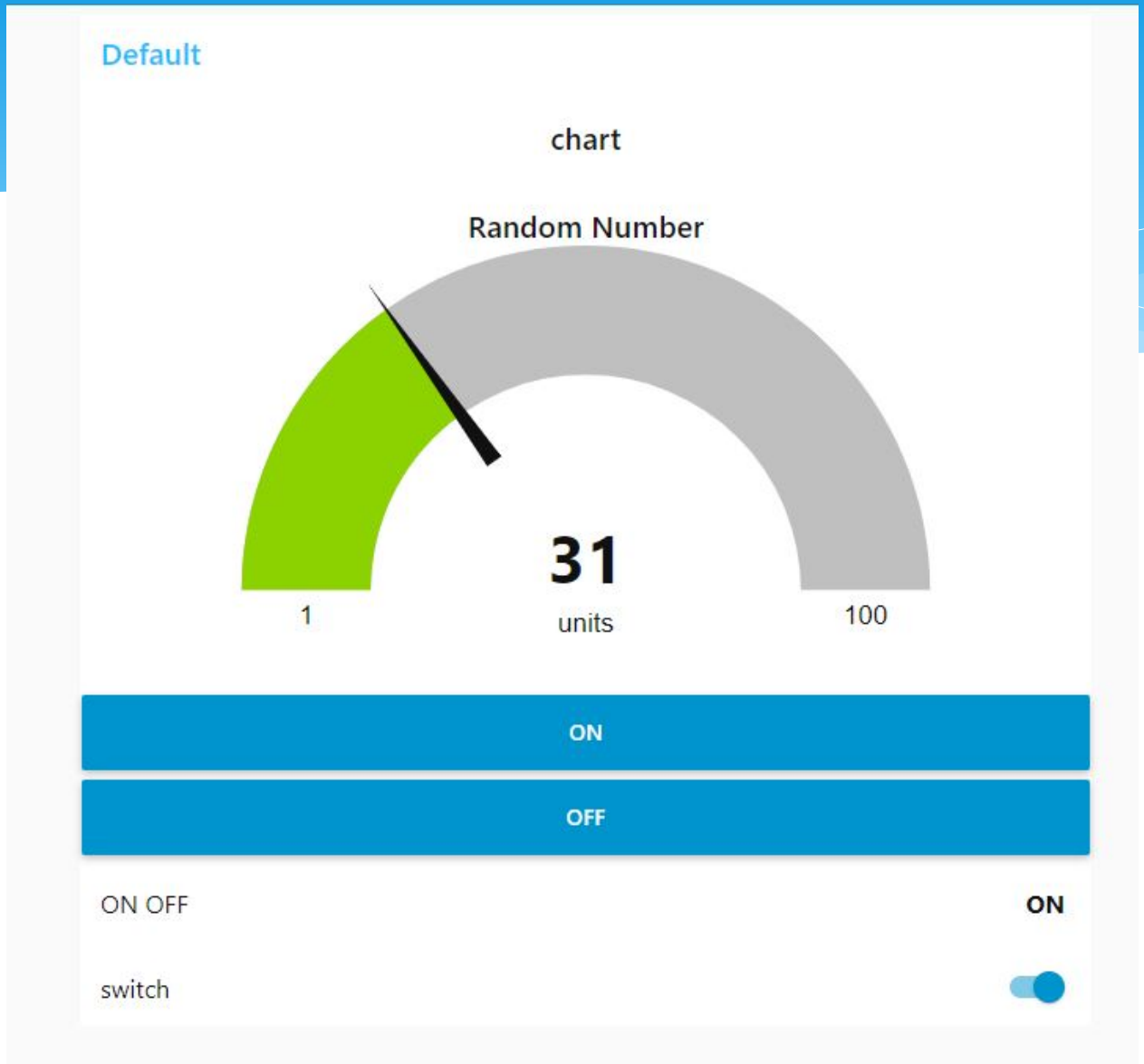
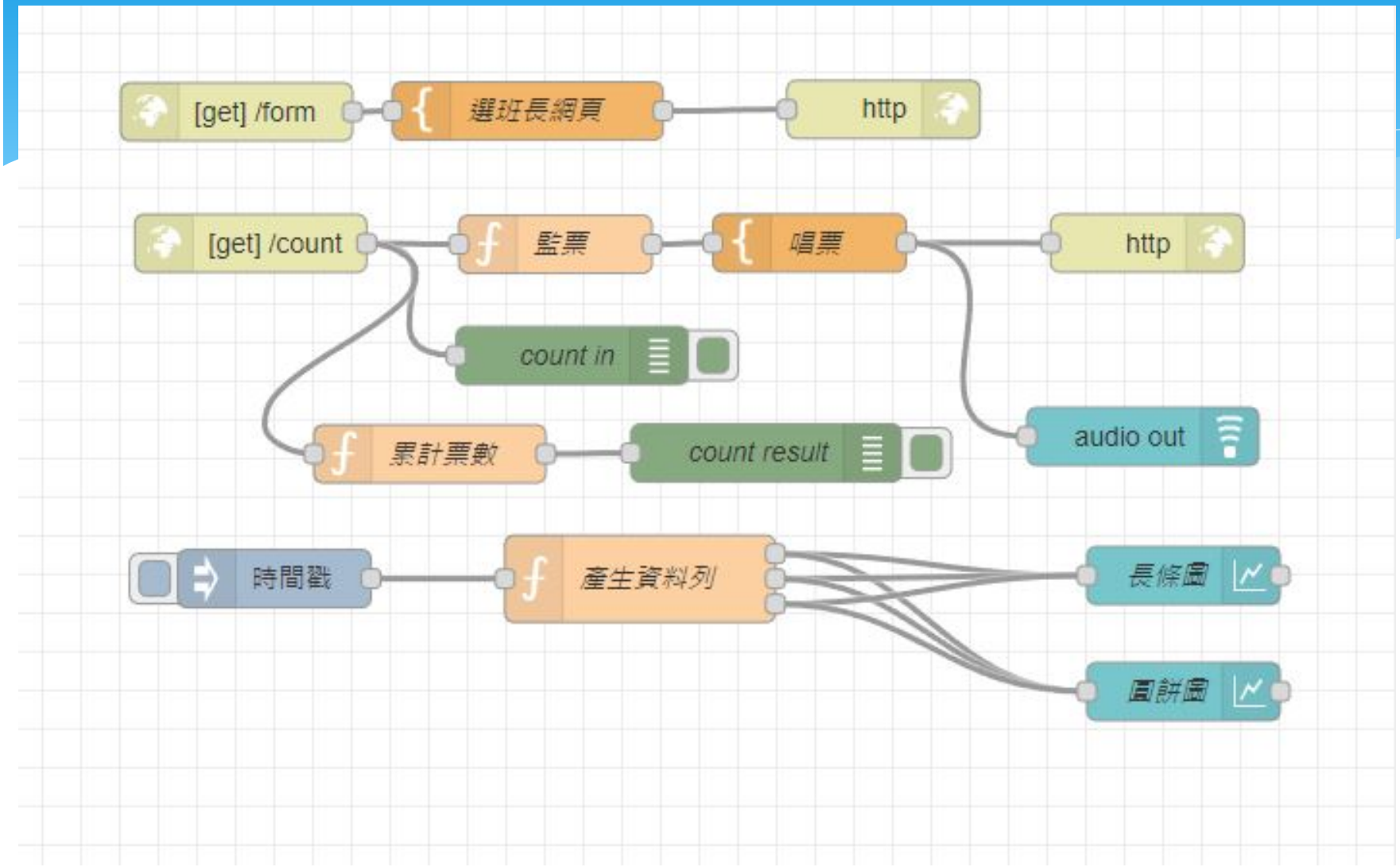
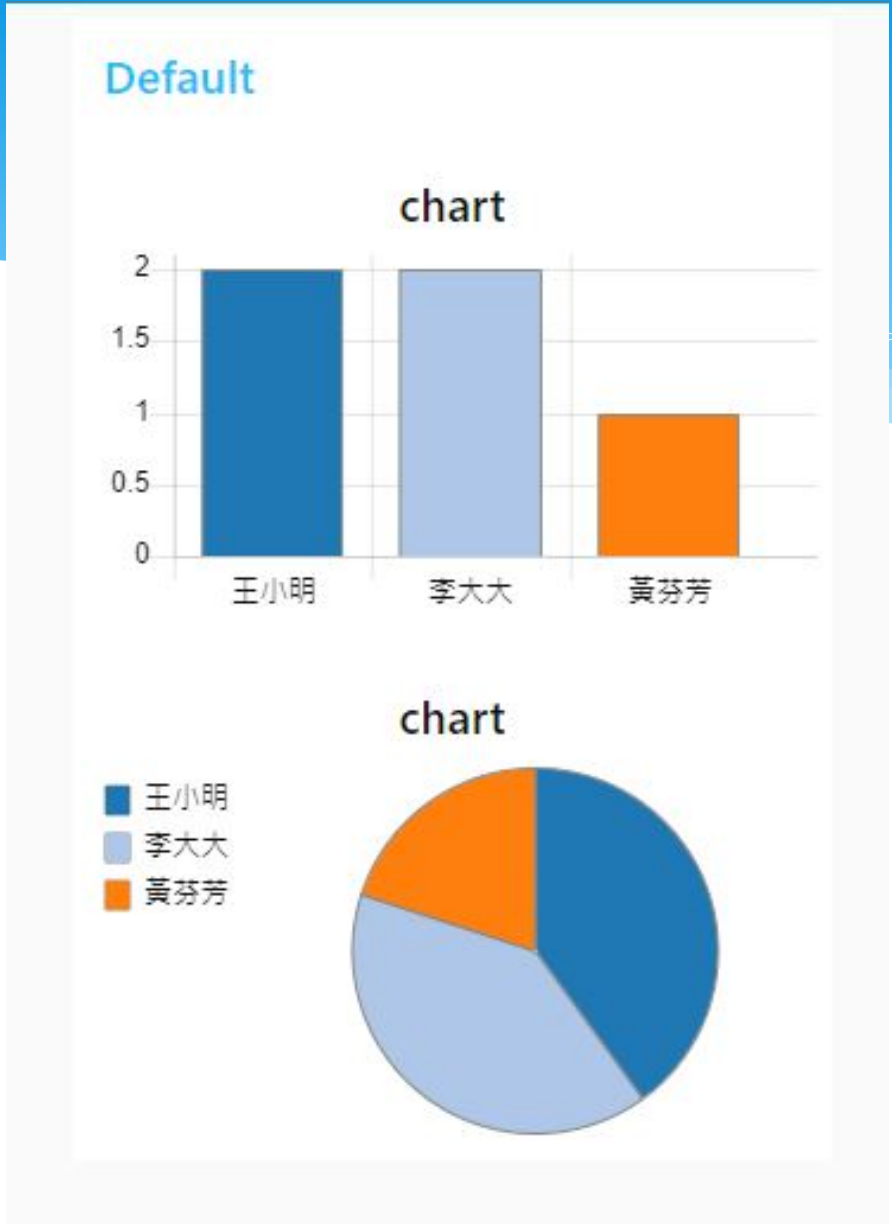
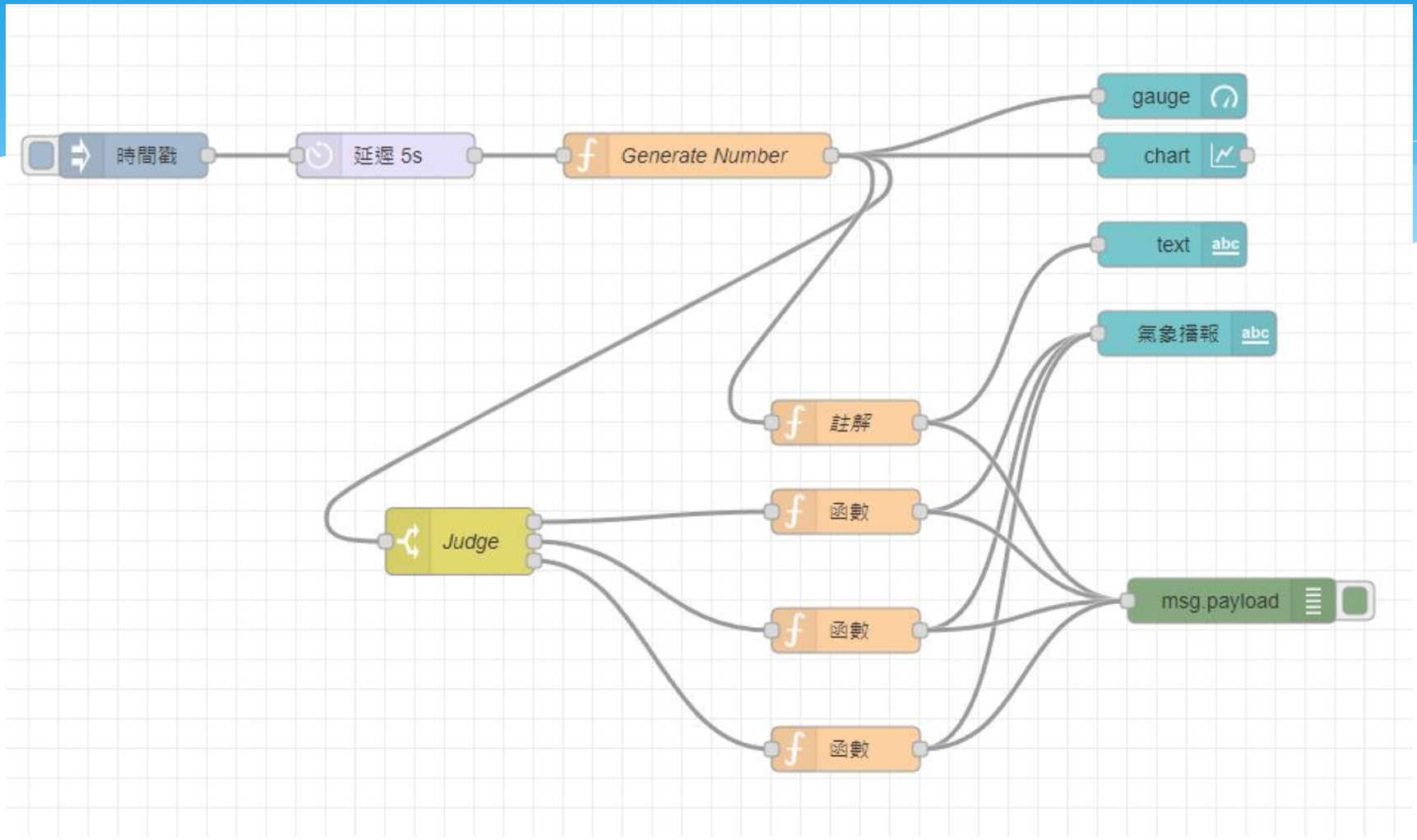
Node-red Class


時間戳
random number
msg.payload
random
Random Number
ON
OFF
Switch
msg.payload
onoff
abc
Slider
Slider value

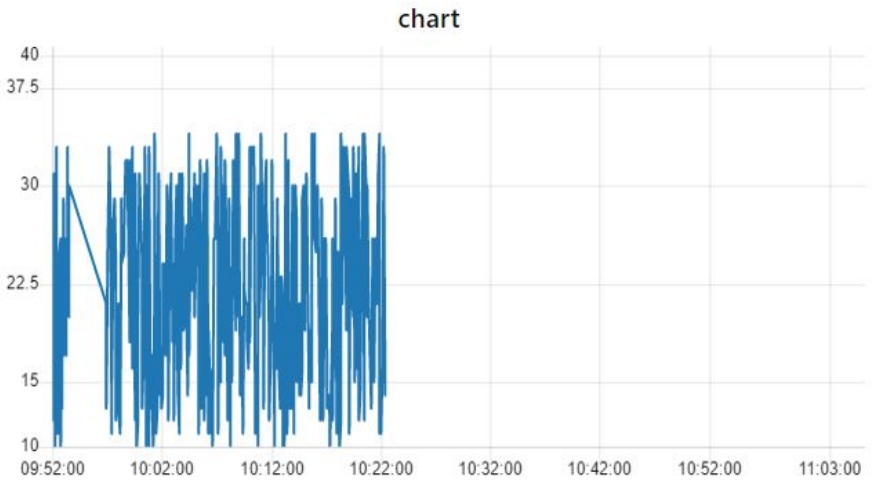

Default
chart
Random Number
31
units
1
100
ON
OFF
ON OFF
ON
switch

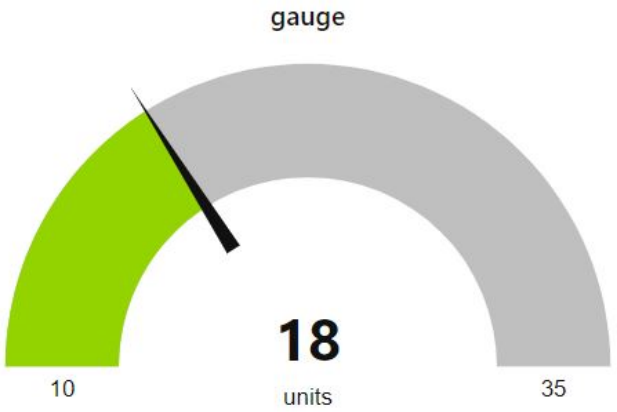

[get] /form
選班長網頁
http
[get] /count
監票
唱票
http
count in
audio out
累計票數
count result
時間戳
產生資料列
長條圖
圓餅圖


Default
chart
2
1.5
1
0.5
0
王小明
李大大
黄芬芳
chart
王小明
李大大
黄芬芳

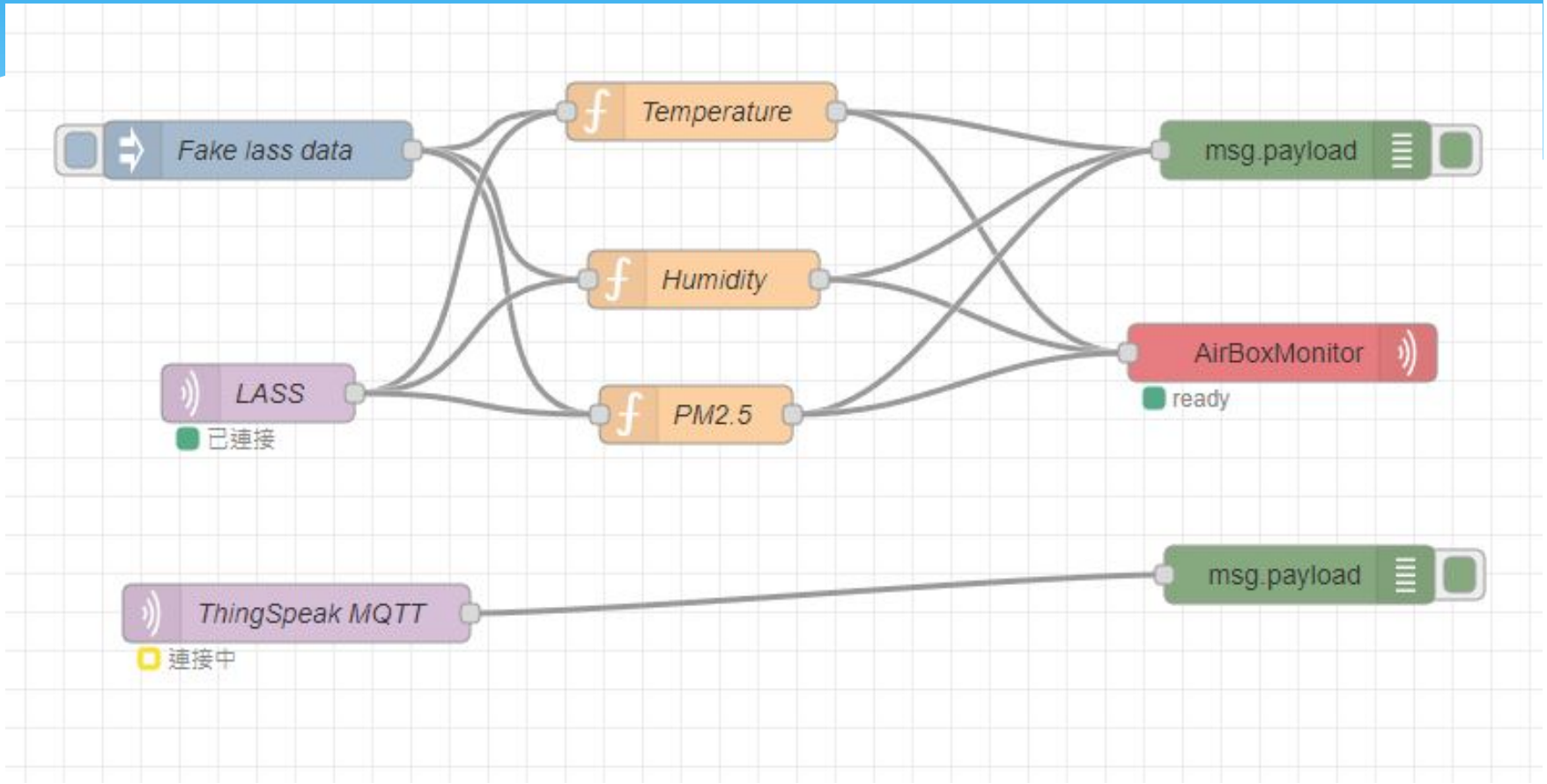

時間戳
延遲 5s
Generate Number
gauge
chart
text
abc
氣象播報
abc
註解
函數
函數
函數
Judge
msg.payload

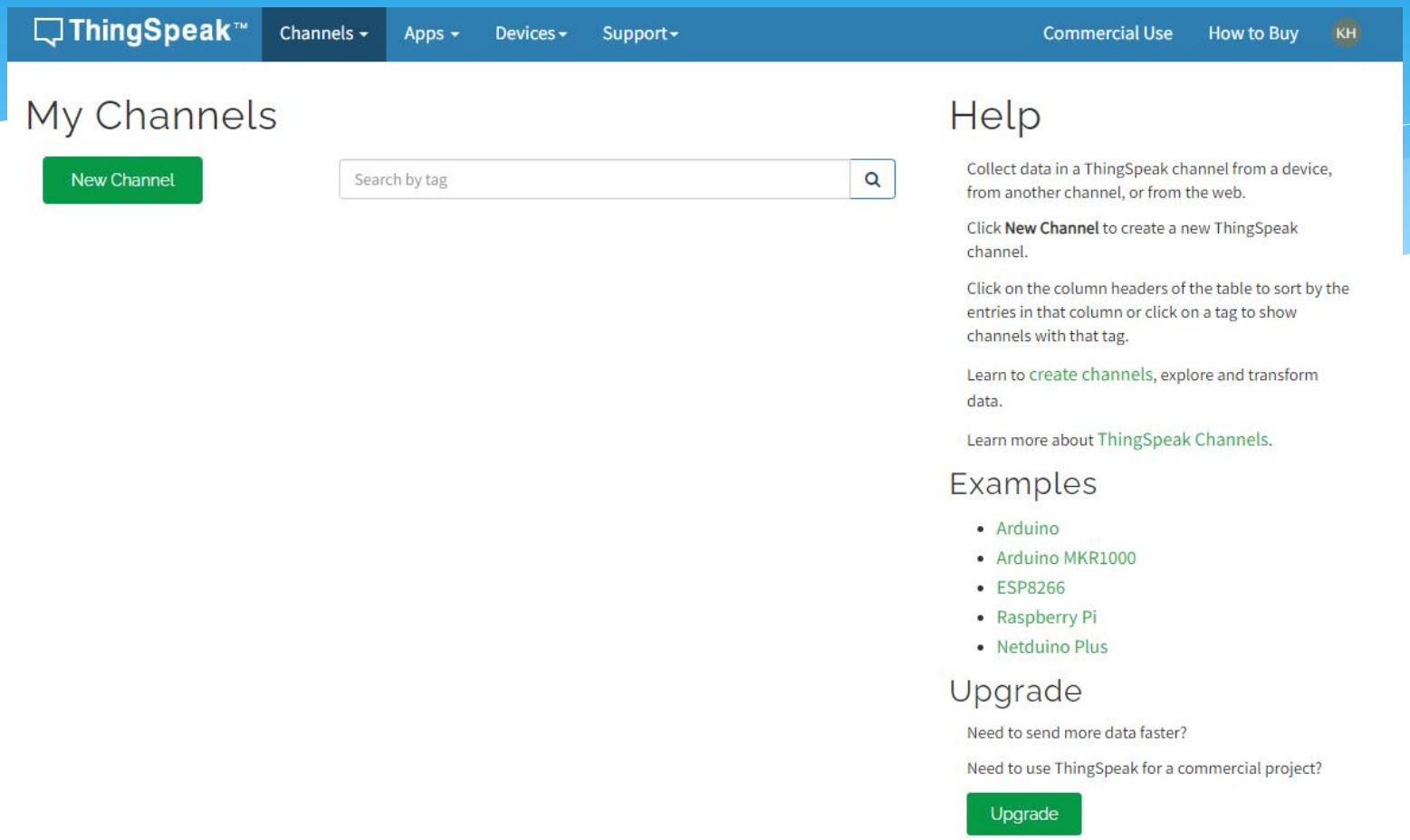
Random

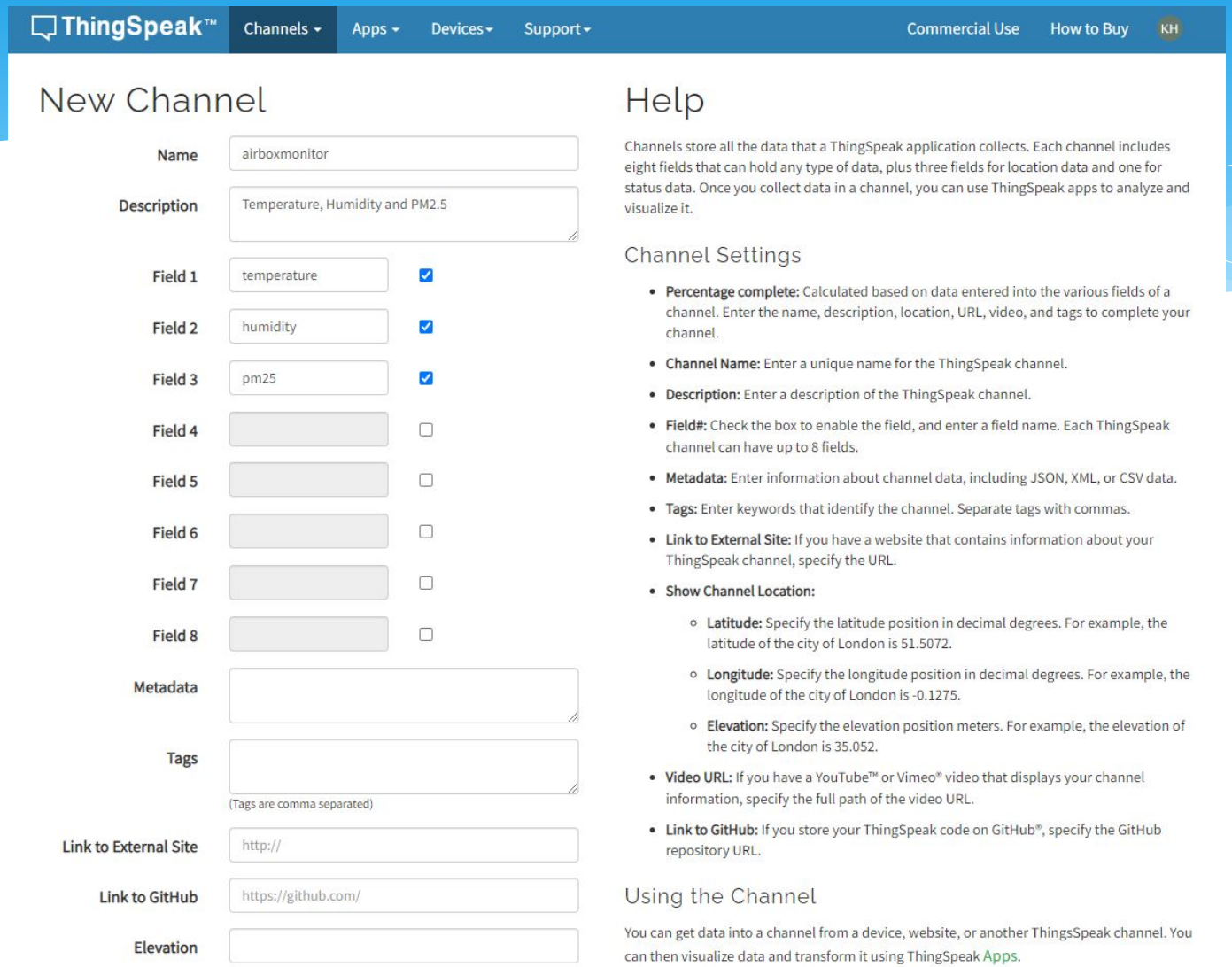




氣象播報　　冷死了, 衣服多穿點　　溫度 : **18** 度


Fake lass data
Temperature
Humidity
PM2.5
LASS
已連接
msg.payload
AirBoxMonitor
ready
ThingSpeak MQTT
連接中
msg.payload


ThingSpeak™
Channels
Apps
Devices
Support
Commercial Use
How to Buy
KH
My Channels
New Channel
Search by tag
Help
Collect data in a ThingSpeak channel from a device, from another channel, or from the web.
Click New Channel to create a new ThingSpeak channel.
Click on the column headers of the table to sort by the entries in that column or click on a tag to show channels with that tag.
Learn to create channels, explore and transform data.
Learn more about ThingSpeak Channels.
Examples
Arduino
Arduino MKR1000
ESP8266
Raspberry Pi
Netduino Plus
Upgrade
Need to send more data faster?
Need to use ThingSpeak for a commercial project?
Upgrade


ThingSpeak™
Channels
Apps
Devices
Support
Commercial Use
How to Buy
KH
New Channel
Name
airboxmonitor
Description
Temperature, Humidity and PM2.5
Field 1
temperature
Field 2
humidity
Field 3
pm25
Field 4
Field 5
Field 6
Field 7
Field 8
Metadata
Tags
(Tags are comma separated)
Link to External Site
http://
Link to GitHub
https://github.com/
Elevation
Help
Channels store all the data that a ThingSpeak application collects. Each channel includes eight fields that can hold any type of data, plus three fields for location data and one for status data. Once you collect data in a channel, you can use ThingSpeak apps to analyze and visualize it.
Channel Settings
Percentage complete: Calculated based on data entered into the various fields of a channel. Enter the name, description, location, URL, video, and tags to complete your channel.
Channel Name: Enter a unique name for the ThingSpeak channel.
Description: Enter a description of the ThingSpeak channel.
Field#: Check the box to enable the field, and enter a field name. Each ThingSpeak channel can have up to 8 fields.
Metadata: Enter information about channel data, including JSON, XML, or CSV data.
Tags: Enter keywords that identify the channel. Separate tags with commas.
Link to External Site: If you have a website that contains information about your ThingSpeak channel, specify the URL.
Show Channel Location:
Latitude: Specify the latitude position in decimal degrees. For example, the latitude of the city of London is 51.5072.
Longitude: Specify the longitude position in decimal degrees. For example, the longitude of the city of London is -0.1275.
Elevation: Specify the elevation position meters. For example, the elevation of the city of London is 35.052.
Video URL: If you have a YouTube™ or Vimeo® video that displays your channel information, specify the full path of the video URL.
Link to GitHub: If you store your ThingSpeak code on GitHub®, specify the GitHub repository URL.
Using the Channel
You can get data into a channel from a device, website, or another ThingsSpeak channel. You can then visualize data and transform it using ThingSpeak Apps.

Metadata

Tags

(Tags are comma separated)

Link to External Site http://

Link to GitHub https://github.com/

Elevation

Show Channel Location ☑

Latitude 22.651260

Longitude 120.348979

Show Video ☐

YouTube

Vimeo

Video URL http://

Show Status ☐

Save Channel

- **Longitude:** Specify the longitude position in decimal degrees. For example, the longitude of the city of London is -0.1275.
- **Elevation:** Specify the elevation position meters. For example, the elevation of the city of London is 35.052.

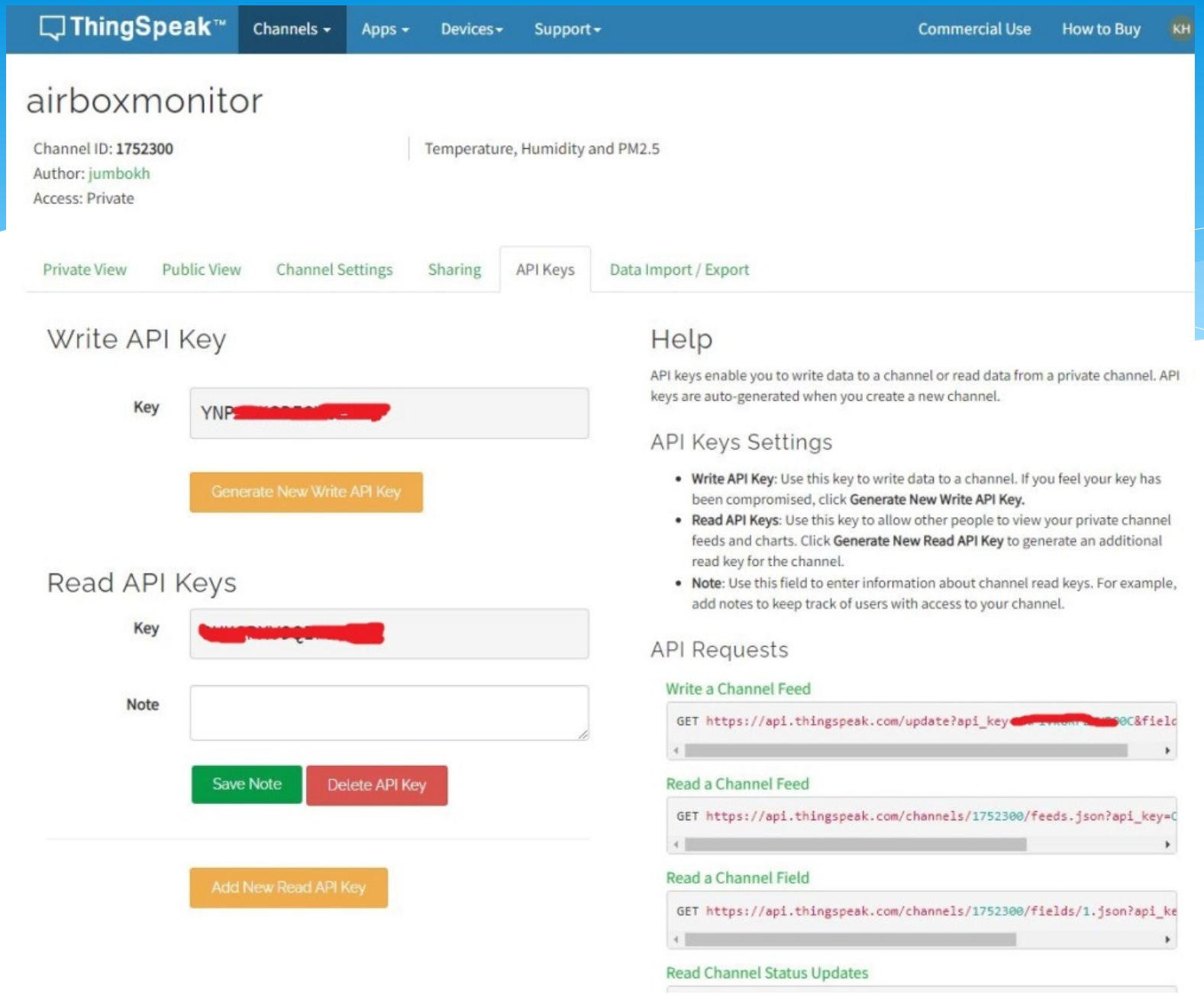
- **Video URL:** If you have a YouTube™ or Vimeo® video that displays your channel information, specify the full path of the video URL.
- **Link to GitHub:** If you store your ThingSpeak code on GitHub®, specify the GitHub repository URL.

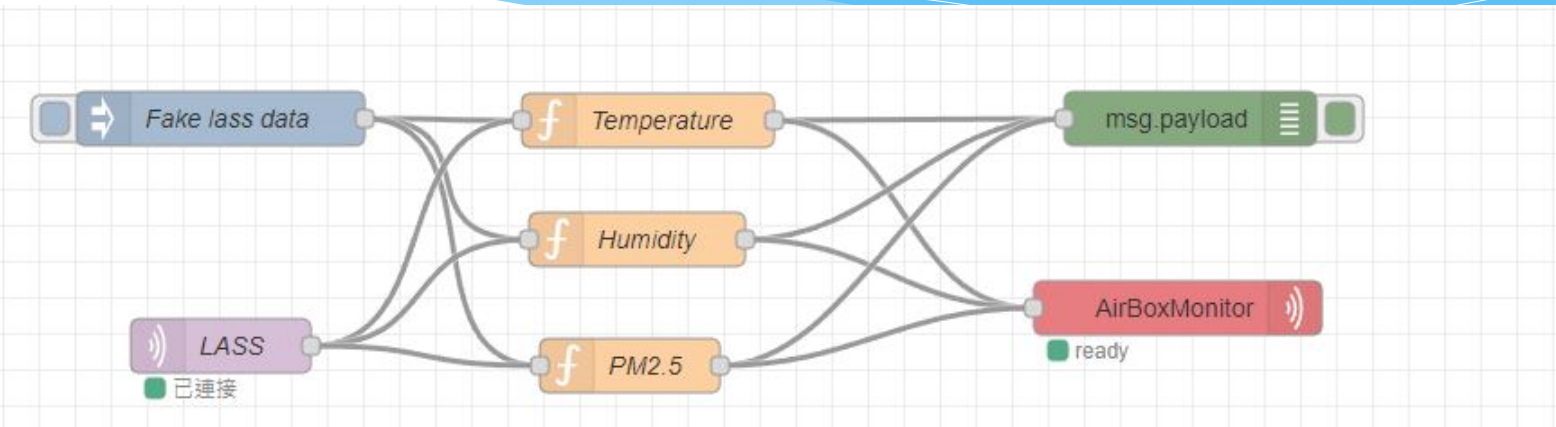
Using the Channel

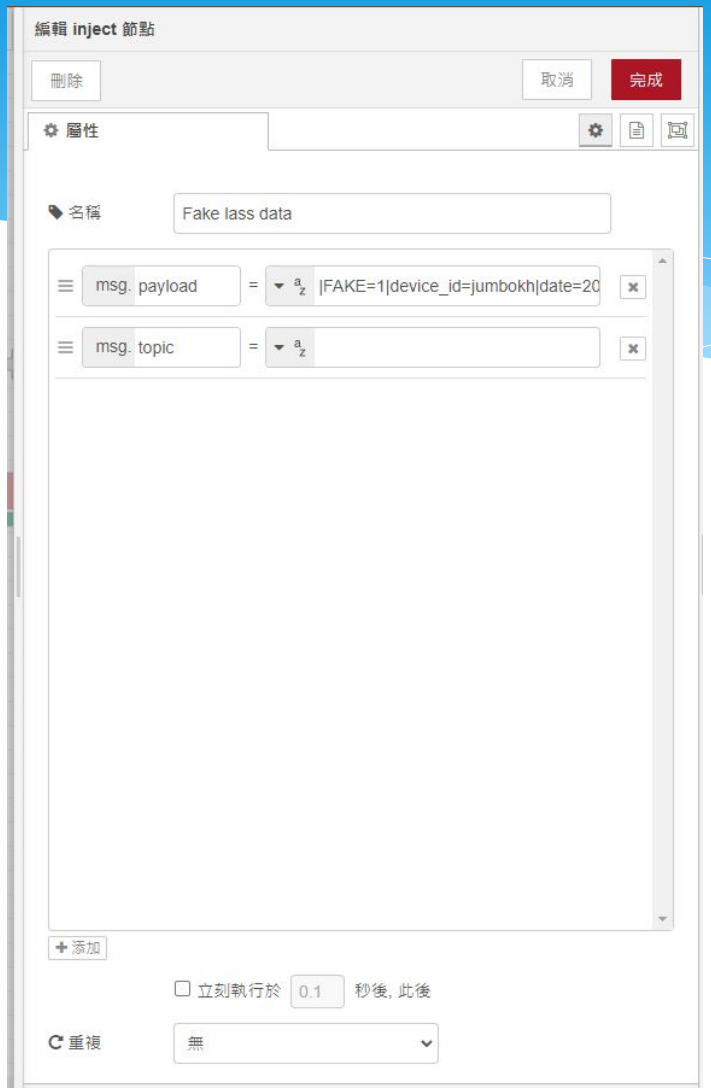
You can get data into a channel from a device, website, or another ThingsSpeak channel. You can then visualize data and transform it using ThingSpeak Apps.

See Get Started with ThingSpeak" for an example of measuring dew point from a weather station that acquires data from an Arduino® device.

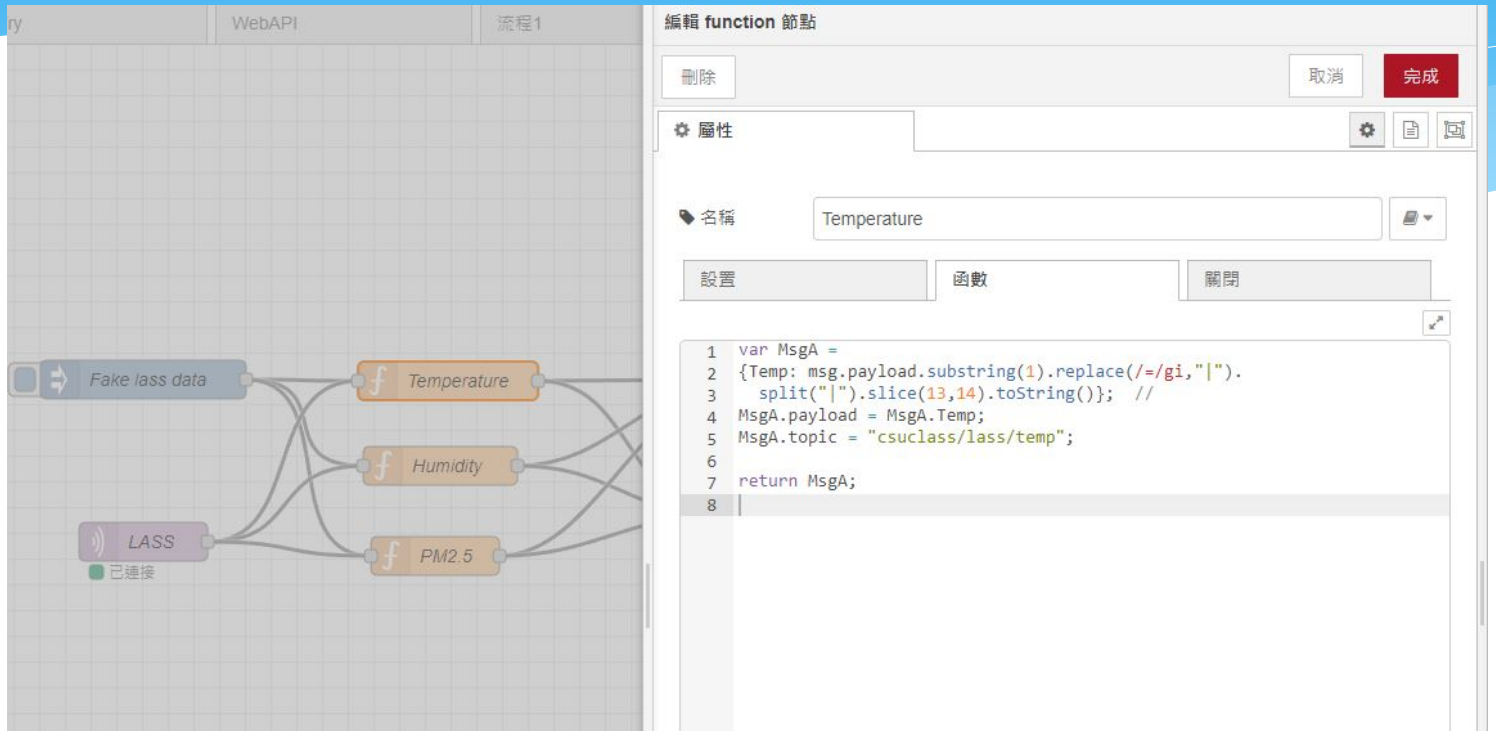
Learn More

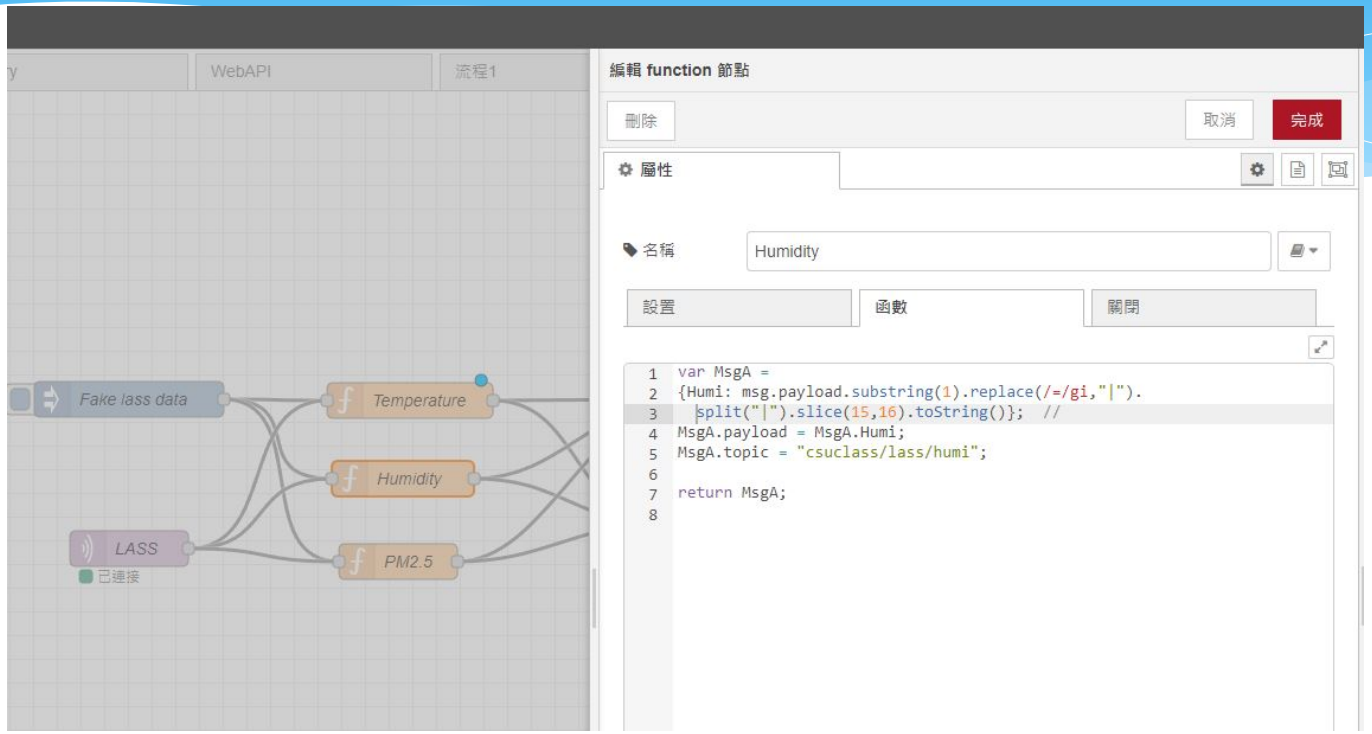

ThingSpeak™
Channels
Apps
Devices
Support
Commercial Use
How to Buy
KH
airboxmonitor
Channel ID: 1752300
Author: jumbokh
Access: Private
Temperature, Humidity and PM2.5
Private View
Public View
Channel Settings
Sharing
API Keys
Data Import / Export
Write API Key
Key
YNP
Generate New Write API Key
Read API Keys
Key
Note
Save Note
Delete API Key
Add New Read API 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
Write a Channel Feed
GET https://api.thingspeak.com/update?api_key
Read a Channel Feed
GET https://api.thingspeak.com/channels/1752300/feeds.json?api_key=
Read a Channel Field
GET https://api.thingspeak.com/channels/1752300/fields/1.json?api_ke
Read Channel Status Updates

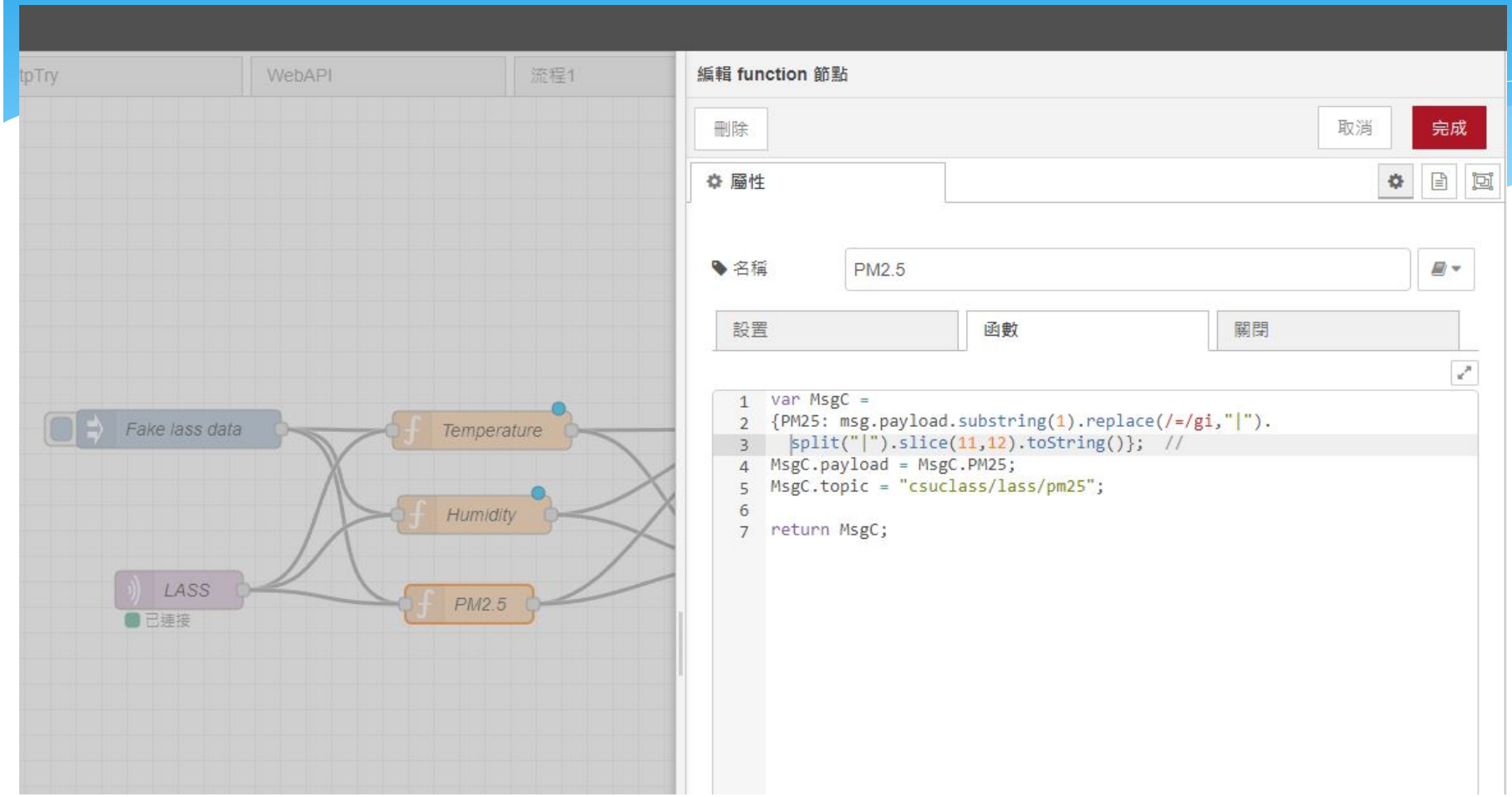

Fake lass data
Temperature
msg.payload
Humidity
AirBoxMonitor
LASS
PM2.5
ready
已連接

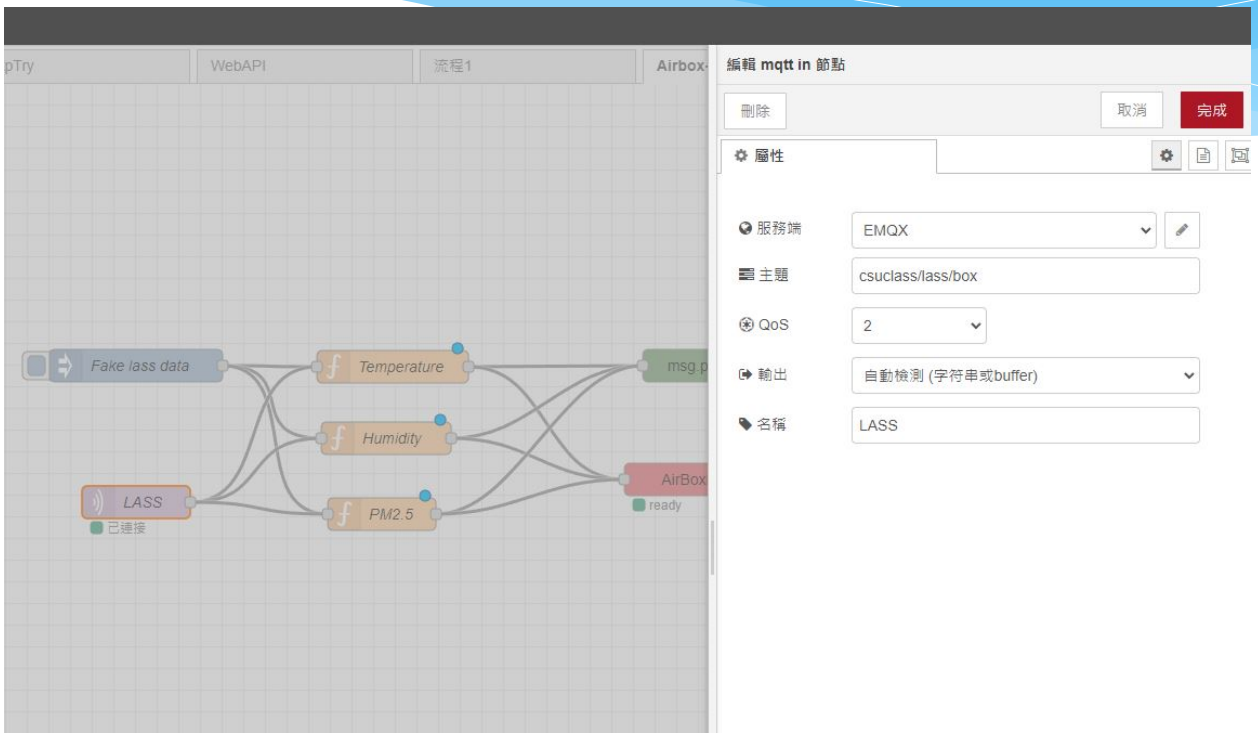


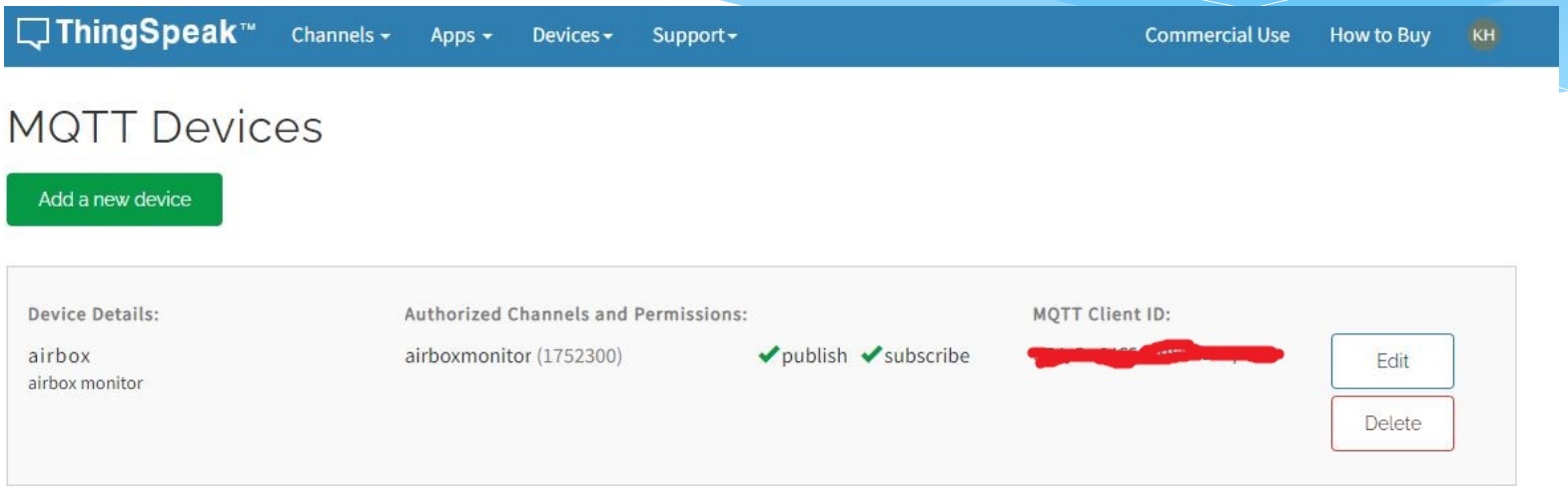
|FAKE=1|device_id=jumbokh|date=2017-12-1|time=03:43:56|
device=Nodemcu|s_d0=60.00|s_t0=23.40|s_h0=80.20|s_d1=0.00

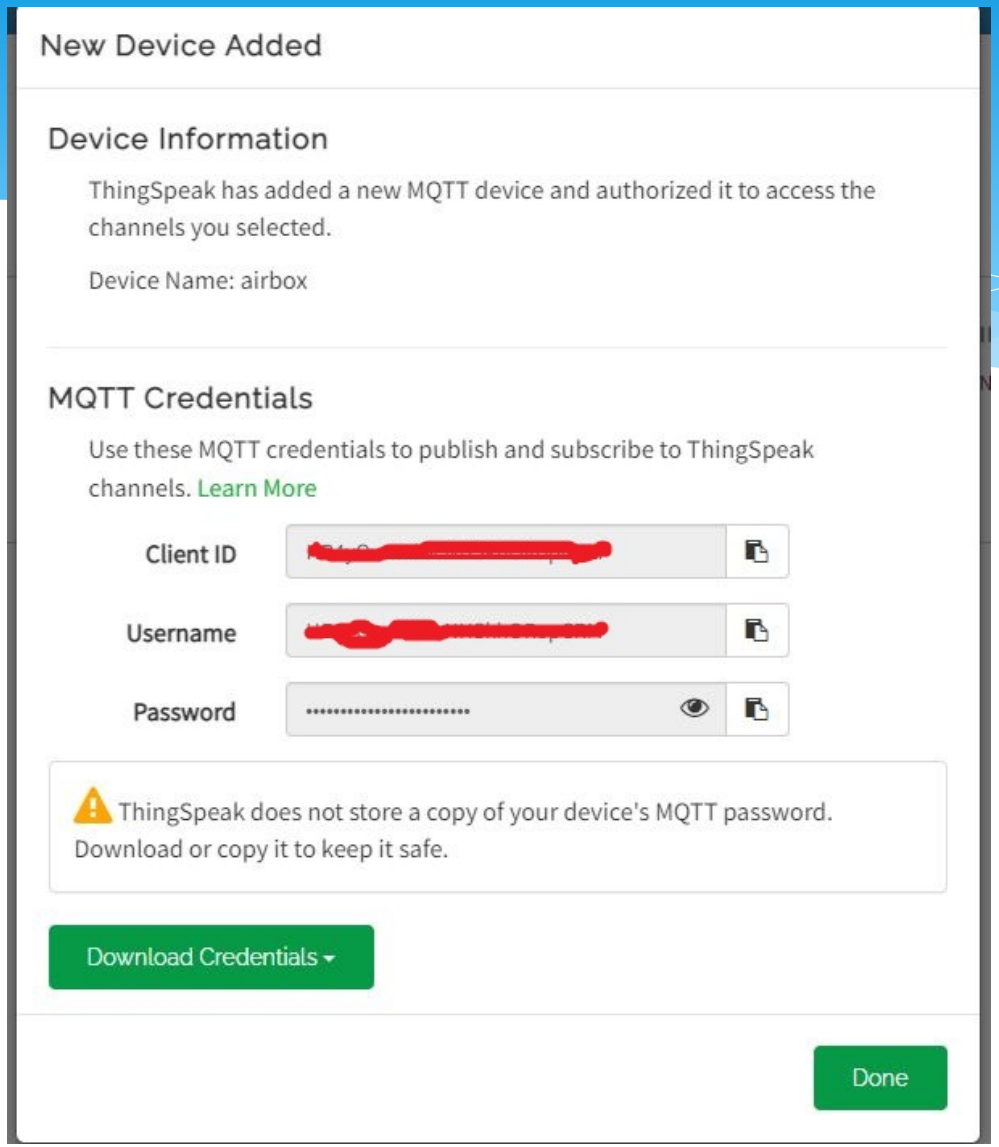

ry
WebAPI
流程1
Fake lass data
Temperature
Humidity
LASS
已連接
PM2.5
編輯 function 節點
刪除
取消
完成
屬性
名稱
Temperature
設置
函數
關閉
1 var MsgA =
2 {Temp: msg.payload.substring(1).replace(/=/gi,"|").
3 split("|").slice(13,14).toString()}; //
4 MsgA.payload = MsgA.Temp;
5 MsgA.topic = "csuclass/lass/temp";
6
7 return MsgA;
8

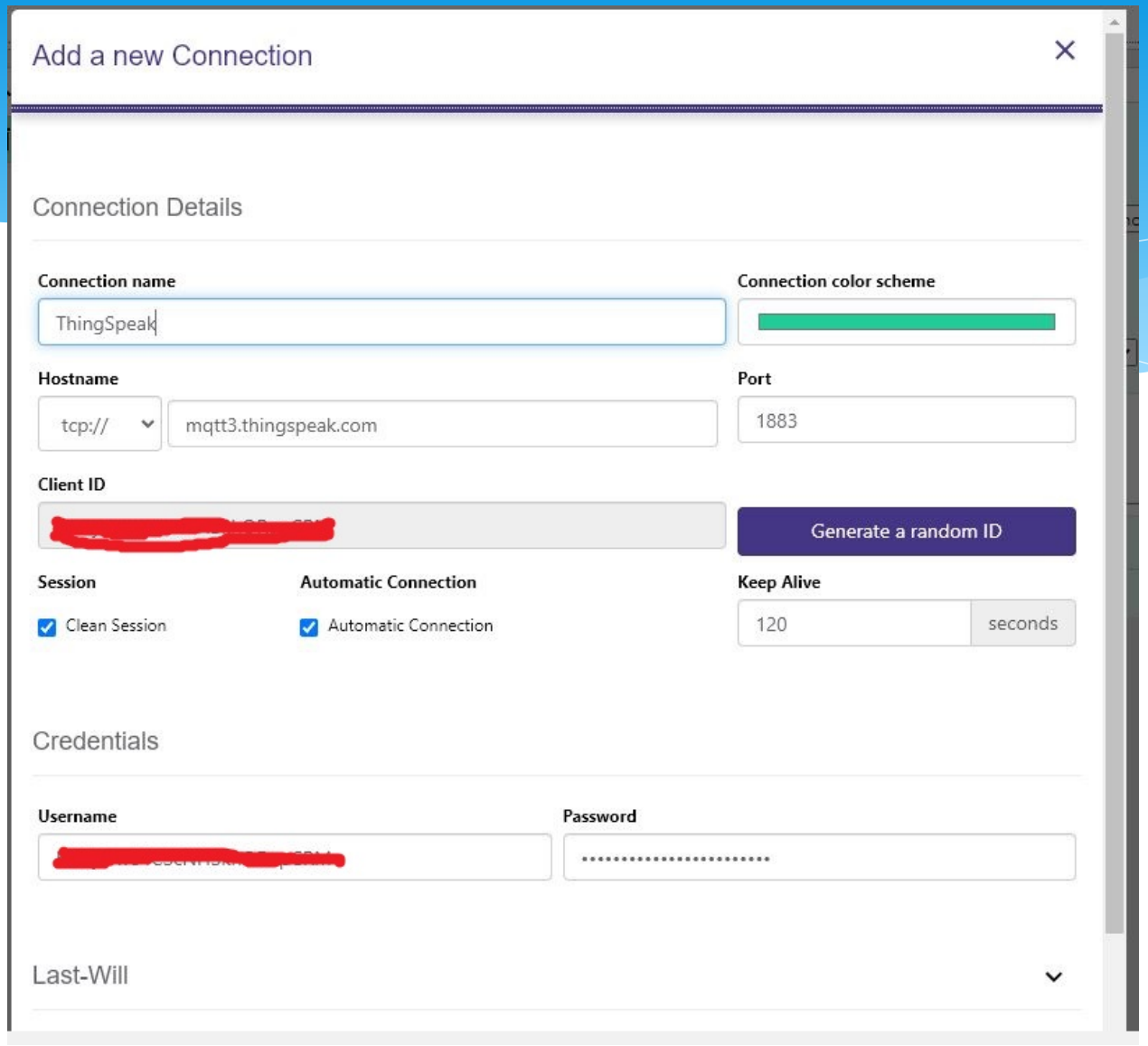

WebAPI
流程1
Fake lass data
Temperature
Humidity
LASS
已連接
PM2.5
編輯 function 節點
刪除
取消
完成
屬性
名稱
Humidity
設置
函數
關閉
1 var MsgA =
2 {Humi: msg.payload.substring(1).replace(/=/gi,"|").
3 split("|").slice(15,16).toString()}; //
4 MsgA.payload = MsgA.Humi;
5 MsgA.topic = "csuclass/lass/humi";
6
7 return MsgA;
8

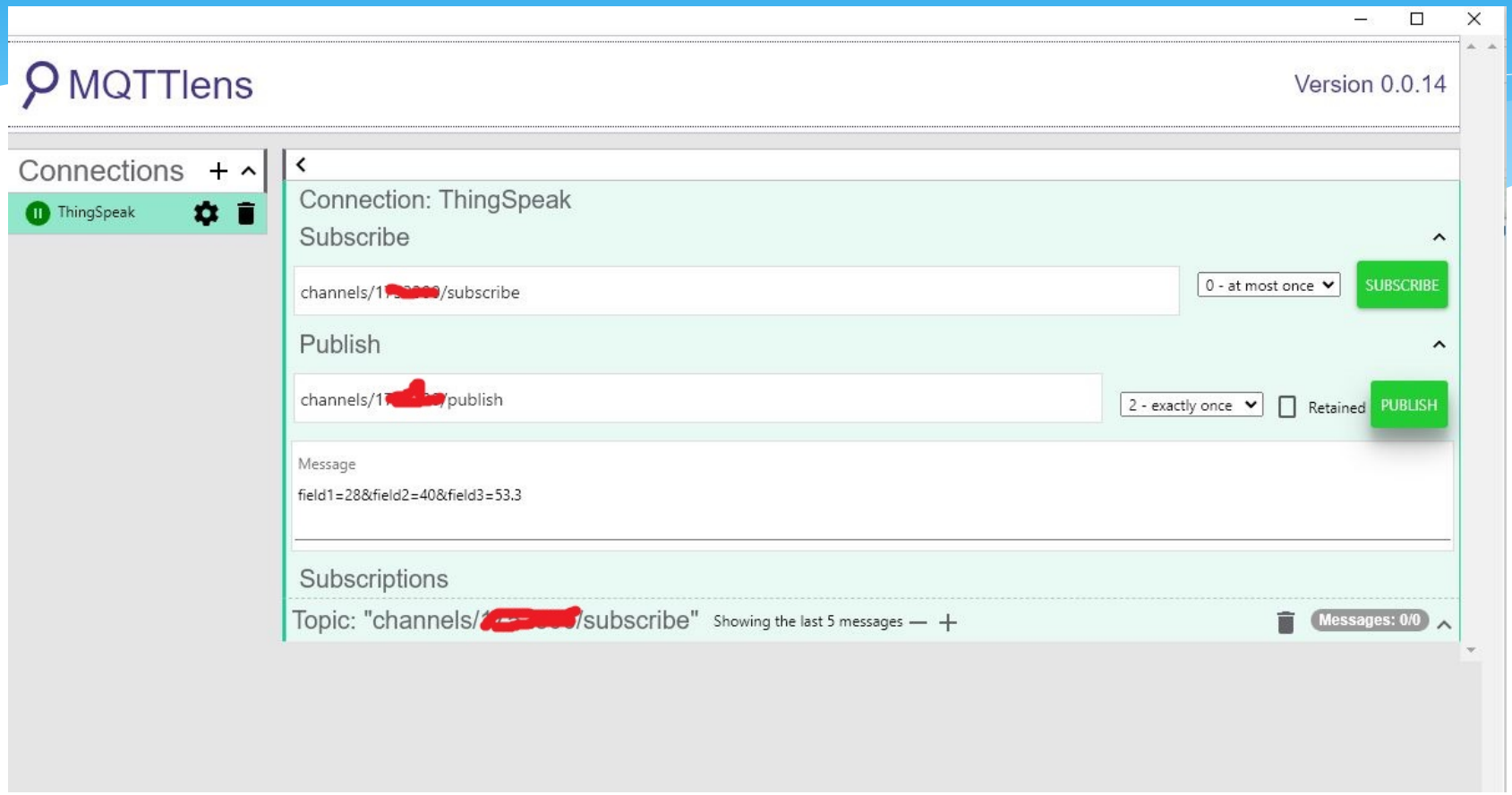

tpTry
WebAPI
流程1
Fake lass data
Temperature
Humidity
LASS
已連接
PM2.5
編輯 function 節點
刪除
取消
完成
屬性
名稱
PM2.5
設置
函數
關閉
1 var MsgC =
2 {PM25: msg.payload.substring(1).replace(/=/gi,"|").
3 split("|").slice(11,12).toString()}; //
4 MsgC.payload = MsgC.PM25;
5 MsgC.topic = "csuclass/lass/pm25";
6
7 return MsgC;

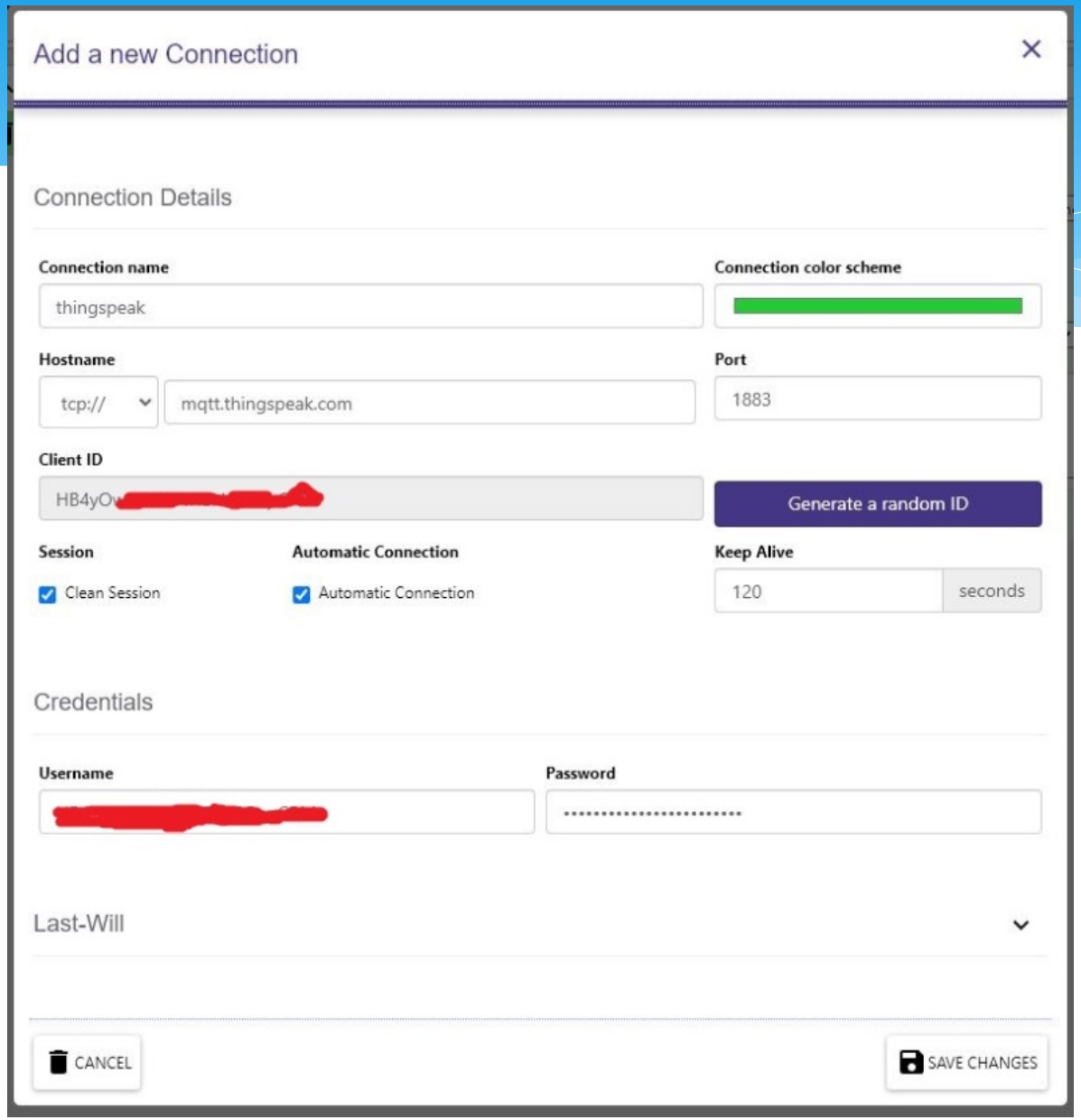

pTry
WebAPI
流程1
Airbox
Fake lass data
Temperature
Humidity
PM2.5
LASS
已連接
AirBox
ready
編輯 mqtt in 節點
刪除
取消
完成
屬性
服務端
EMQX
主題
csuclass/lass/box
QoS
2
輸出
自動檢測 (字符串或buffer)
名稱
LASS

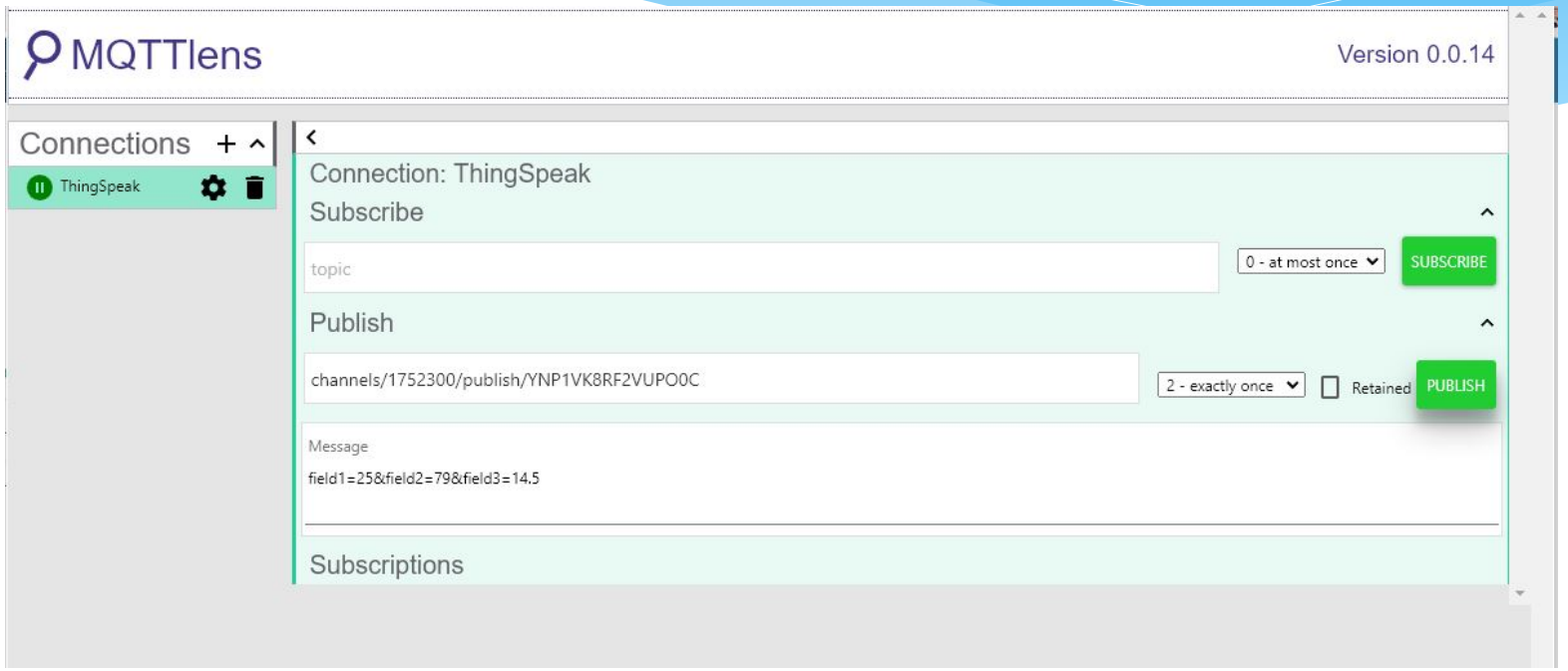

ThingSpeak™
Channels
Apps
Devices
Support
Commercial Use
How to Buy
KH
MQTT Devices
Add a new device
Device Details:
Authorized Channels and Permissions:
MQTT Client ID:
airbox
airbox monitor
airboxmonitor (1752300)
publish
subscribe
Edit
Delete


New Device Added
Device Information
ThingSpeak has added a new MQTT device and authorized it to access the channels you selected.
Device Name: airbox
MQTT Credentials
Use these MQTT credentials to publish and subscribe to ThingSpeak channels. Learn More
Client ID
Username
Password
ThingSpeak does not store a copy of your device's MQTT password. Download or copy it to keep it safe.
Download Credentials
Done


Add a new Connection
Connection Details
Connection name
ThingSpeak
Connection color scheme
Hostname
tcp://
mqtt3.thingspeak.com
Port
1883
Client ID
[redacted]
Generate a random ID
Session
Clean Session
Automatic Connection
Automatic Connection
Keep Alive
120
seconds
Credentials
Username
[redacted]
Password
Last-Will


MQTTlens
Version 0.0.14
Connections
ThingSpeak
Connection: ThingSpeak
Subscribe
channels/1[redacted]/subscribe
0 - at most once
SUBSCRIBE
Publish
channels/1[redacted]/publish
2 - exactly once
Retained
PUBLISH
Message
field1=28&field2=40&field3=53.3
Subscriptions
Topic: "channels/[redacted]/subscribe"
Showing the last 5 messages
Messages: 0/0


Add a new Connection
Connection Details
Connection name
thingspeak
Connection color scheme
Hostname
tcp://
mqtt.thingspeak.com
Port
1883
Client ID
HB4yO
Generate a random ID
Session
Clean Session
Automatic Connection
Automatic Connection
Keep Alive
120
seconds
Credentials
Username
Password
Last-Will
CANCEL
SAVE CHANGES


MQTTlens
Version 0.0.14
Connections
ThingSpeak
Connection: ThingSpeak
Subscribe
topic
0 - at most once
SUBSCRIBE
Publish
channels/1752300/publish/YNP1VK8RF2VUPO0C
2 - exactly once
Retained
PUBLISH
Message
field1=25&field2=79&field3=14.5
Subscriptions