



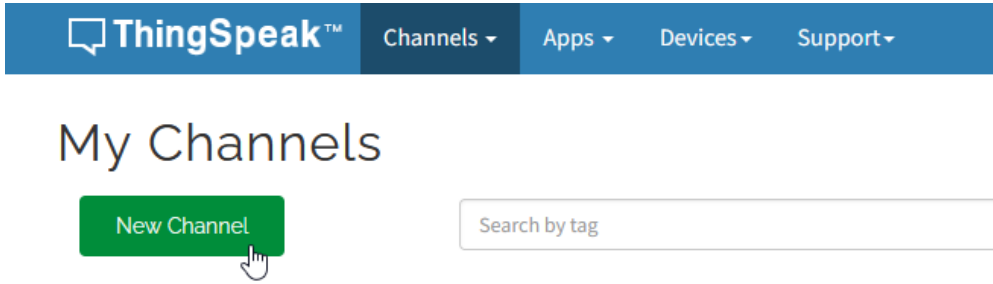
ThingSpeak + ArduinoBlocks

<https://thingspeak.com>

<http://www.arduinoblocks.com>

Mayo 2022

## 1.- Crear un canal

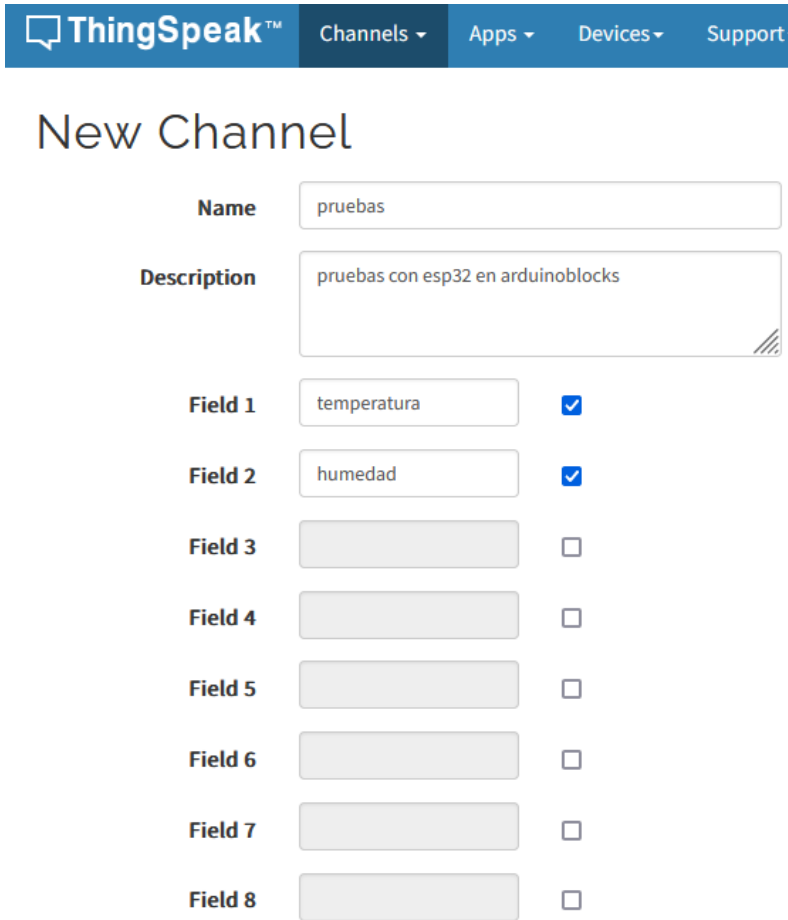


ThingSpeak™ Channels Apps Devices Support

# My Channels

New Channel

Search by tag



ThingSpeak™ Channels Apps Devices Support

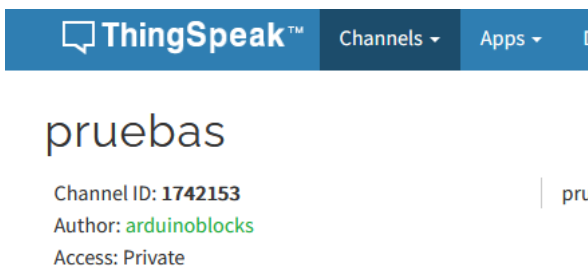
# New Channel

**Name** pruebas

**Description** pruebas con esp32 en arduinoblocks

<b>Field 1</b>	temperatura	<input checked="" type="checkbox"/>
<b>Field 2</b>	humedad	<input checked="" type="checkbox"/>
<b>Field 3</b>		<input type="checkbox"/>
<b>Field 4</b>		<input type="checkbox"/>
<b>Field 5</b>		<input type="checkbox"/>
<b>Field 6</b>		<input type="checkbox"/>
<b>Field 7</b>		<input type="checkbox"/>
<b>Field 8</b>		<input type="checkbox"/>

## ID del canal (channel ID):

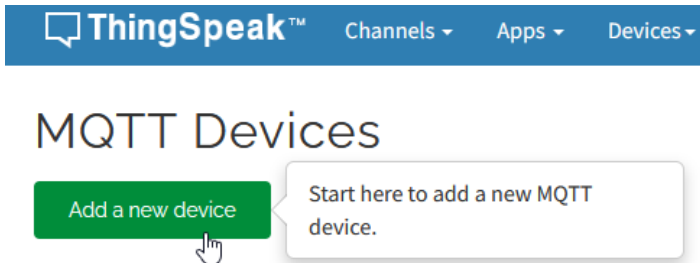
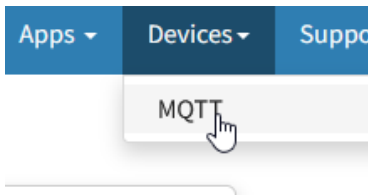


ThingSpeak™ Channels Apps

# pruebas

Channel ID: 1742153 | pr  
Author: arduinoblocks  
Access: Private

## 2.- Crear un dispositivo MQTT



Dentro del dispositivo MQTT añadir el canal asociado a este dispositivo MQTT:

Add a new device ×

### Device Information

**Name\***

**Description**

### Authorize channels to access ⓘ

...

Add Channel

Authorized Channel ⓘ	Allow Publish	Allow Subscribe
No channels authorized.		

Y darle permisos de publicar / suscribirse:

...

Add Channel

Authorized Channel ⓘ	Allow Publish	Allow Subscribe
pruebas (1742153)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Cancel

Add Device

### 3.-Credenciales del dispositivo MQTT (necesarias para el bloque de conectar a MQTT)

#### MQTT Credentials

Use these MQTT credentials to publish and subscribe to ThingSpeak channels. [Learn More](#)

Client ID	<input type="text" value="XXXXXXXXXXXXXXXXXXXX"/>	
Username	<input type="text" value="XXXXXXXXXXXXXXXXXXXX"/>	
Password	<input type="password" value="XXXXXXXXXXXXXXXXXXXX"/>	

ThingSpeak does not store a copy of your device's MQTT password. Download or copy it to keep it safe.

Download Credentials ▾

Done

### 4.- Servidor (broker) MQTT de ThingSpeak

Dirección: mqtt3.thingspeak.com

Puerto: 1883

### 5.-Ejemplo con ArduinoBlocks

The image shows an ArduinoBlocks workspace with two main sections: 'Inicializar' (Initialize) and 'Bucle' (Loop). The 'Inicializar' section contains a 'Conectar a una red WiFi' block and an 'Iniciar' block. The 'Iniciar' block is configured with Broker: mqtt3.thingspeak.com, Puerto: 1883, and Client ID: [redacted]. The 'Bucle' section contains a loop that runs every 15000 ms, with two 'Publicar Tema' blocks. The first block publishes 'Temperatura °C' from a DHT-11 sensor to channel 1742153. The second block publishes 'Humedad %' from a DHT-11 sensor to the same channel. To the right, the 'MQTT Credentials' panel is visible, showing the same Client ID, Username, and Password as used in the code blocks. A red arrow points from the 'Usuario' field in the code to the 'Username' field in the credentials panel.

## 6.-Datos en ThingSpeak

### pruebas

Channel ID: 1742153  
Author: arduinoblocks  
Access: Private

pruebas con esp32 en arduinoblocks

Private View

Public View

Channel Settings

Sharing

API Keys

Data Import / Export

+ Add Visualizations

+ Add Widgets

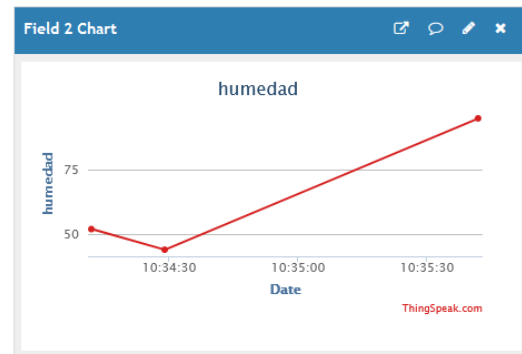
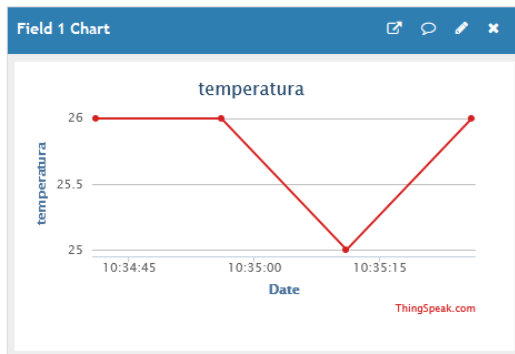
Export recent data

MATLAB Analysis

MATLAB Visualization

### Channel Stats

Created: 15 minutes ago  
Entries: 8



### +Información

<https://es.mathworks.com/help/thingspeak/mqtt-basics.html>

<https://es.mathworks.com/help/thingspeak/mqtt-api.html>