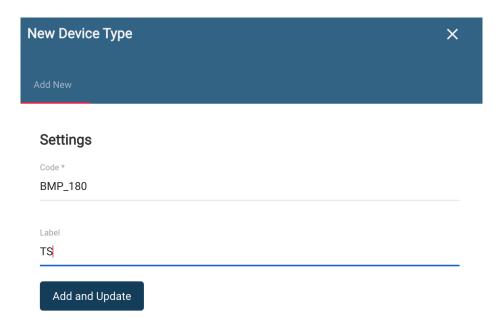
## Part I: Setting up things.ph

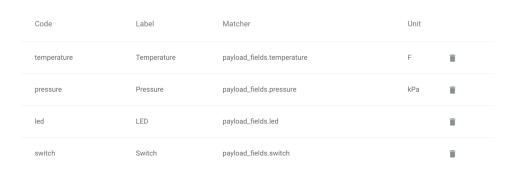
https://things.ph/ will act as your MQTT broker.

- 1. Create an account using your email address.
- 2. Creating Device Type:
  - a. On the left hand side of the screen, open the menu and select Device Types
  - b. On the right hand side of the screen, click Add New
    - i. The code should be BMP\_180 and the label should be TS



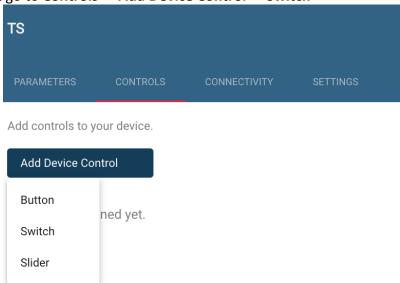
c. Add the following telemetries.

## **Telemetries**

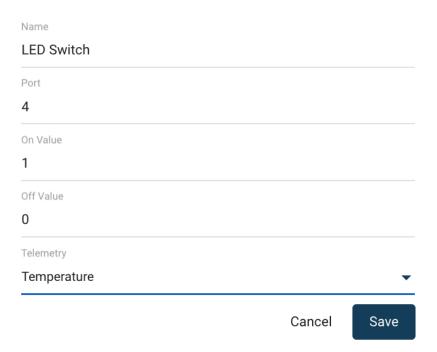


Be careful to ensure that the Matcher fields is payload\_fields."code", otherwise, there will be issues with creating dashboards later.

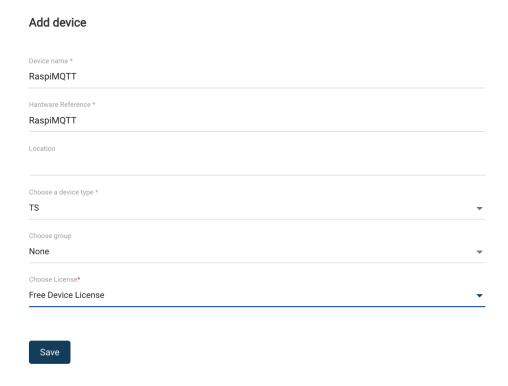
d. Next go to Controls -> Add Device Control -> Switch



e. Change the Name to LED Switch, and select the Telemetry: Temperature

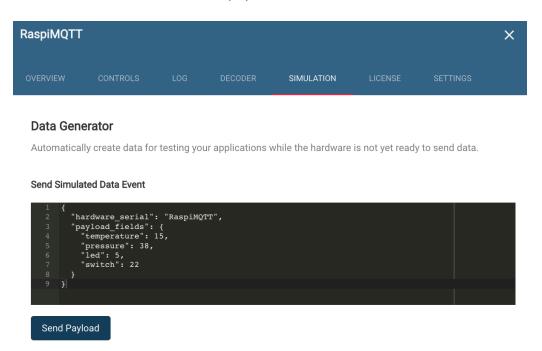


- 3. Creating Device
  - a. On the lefthand side of the screen, open the menu and select Devices
  - b. Click Add Device, and fill the following fields as shown below:



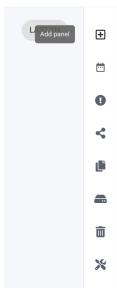
Make sure that the Device type corresponds to the Device type you just created.

c. Once you have created your device, go to **Devices** and select your device. On the top, select simulation and click "send payload"



## 4. Creating Dashboard

- a. On the lefthand side of the screen, open the menu and select Dashboards
- b. Click the + button to create a new Dashboard, provide a Dashboard Name. On the right-hand side of the screen, there is a menu for the dashboard. Select the + surrounded by a box on the top to add a new panel.



c. When creating a panel, make sure to select **REAL-TIME**, the Device should be the name of the device you just created, and **Aggregation** should be current. Select a telemetry. Make sure to change the panel name to match the telemetry selected. **MAKE SEPARATE PANELS FOR EACH TELEMETRY.** 

