

Kilvington Comms Room Temperature Sensor

A Sonoff TH10 switch and SI7021 sensor are located in the Kilvington comms room for monitoring the temperature, humidity and dewpoint.

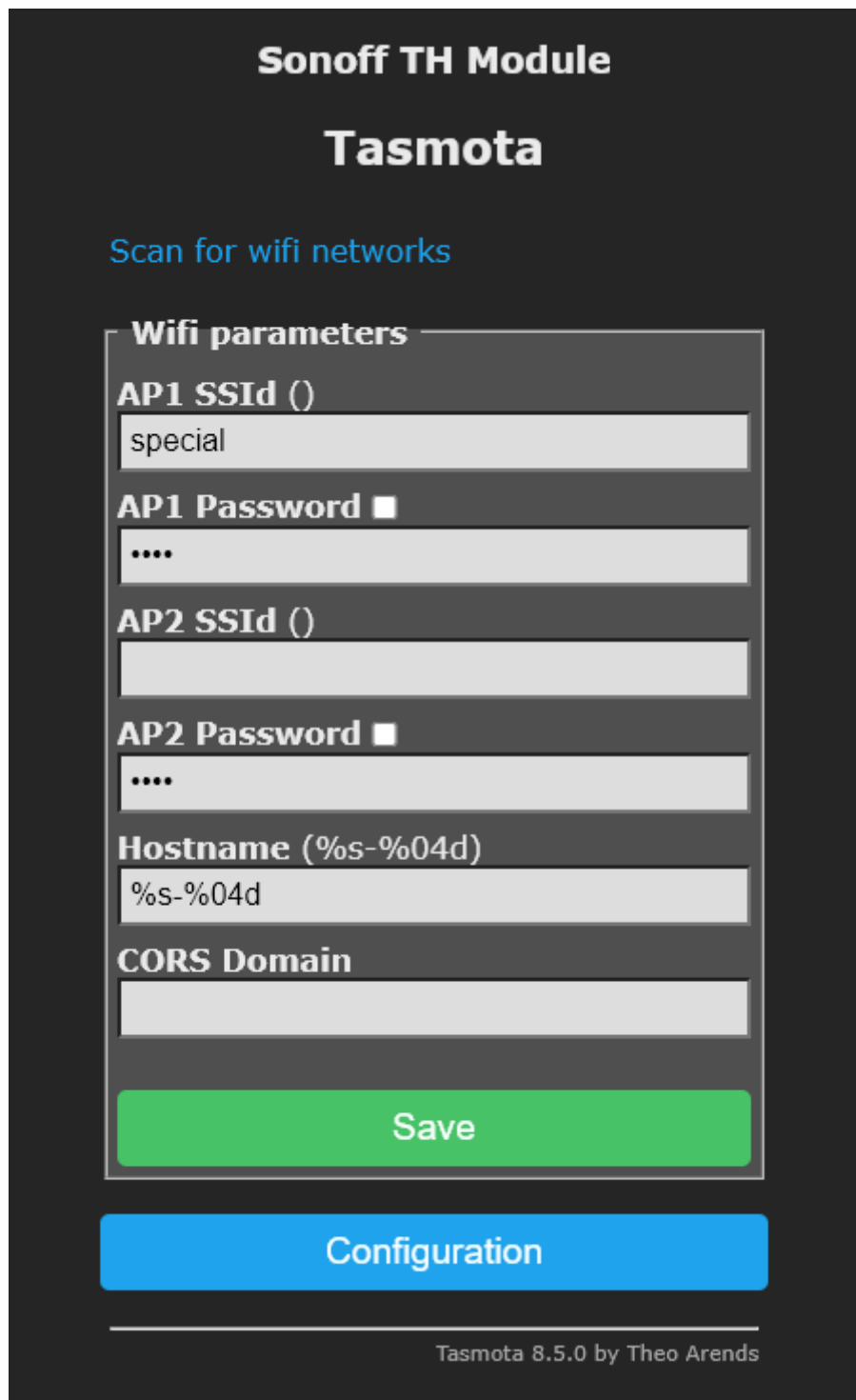
The device has a DHCP reservation on the .134 subnet. It's IP address is 192.168.134.127



This sensor sends MQTT messages to Thingsboard sensor running on the server pbr-iot-1.pbr.org.au

The sensor is configured via the HTTP interface.

The sensor resides on the **Special** wifi network



The image shows a web-based configuration interface for a Sonoff TH Module running Tasmota. The interface has a dark grey background. At the top, the text "Sonoff TH Module" and "Tasmota" are displayed in white. Below this, a blue link "Scan for wifi networks" is visible. The main configuration area is titled "Wifi parameters" and contains several input fields: "AP1 SSId ()" with the value "special", "AP1 Password" with masked characters, "AP2 SSId ()" (empty), "AP2 Password" (masked), "Hostname (%s-%04d)" with the value "%s-%04d", and "CORS Domain" (empty). A green "Save" button is located at the bottom of the configuration area. Below the configuration area is a blue "Configuration" button. At the very bottom, the text "Tasmota 8.5.0 by Theo Arends" is displayed.

Sonoff TH Module

Tasmota

[Scan for wifi networks](#)

Wifi parameters

AP1 SSId ()
special

AP1 Password ■
....

AP2 SSId ()

AP2 Password ■
....

Hostname (%s-%04d)
%s-%04d

CORS Domain

Save

Configuration

Tasmota 8.5.0 by Theo Arends

The set up for the temperature and humidity module is below:

Sonoff TH Module

Tasmota

Module parameters

Module type (Sonoff Basic)

Sonoff TH (4) ▼

GPIO1 Serial Out None (0) ▼

GPIO2 None (0) ▼

GPIO3 Serial In None (0) ▼

GPIO4 None (0) ▼

GPIO14 Sensor SI7021 (3) ▼

Save

Configuration

Tasmota 8.5.0 by Theo Arends

The MQTT setting is below:

Sonoff TH Module

Tasmota

MQTT parameters

Host ()

pbr-iot-1.pbr.org.au

Port (1883)

1883

Client (DVES_CAE4C8)

DVES_%06X

User (DVES_USER)

eRhgcUSIDrOTFD3Gg6eG

Password ■

....

Topic = %topic% (tasmota_CAE4C8)

tasmota_%06X

Full Topic (%prefix%/ %topic%/)

v1/devices/me/telemetry

Save

Configuration

Tasmota 8.5.0 by Theo Arends

A custom rule is used for sending MQTT messages to the Thingsboard.

The command for the rule is below. This rule pushes an MQTT message whenever new sensor data

Rule1

ON Tele-SI7021#TEMPERATURE DO PUBLISH v1/devices/me/telemetry

{"Temperature":%VALUE%} ENDON

ON Tele-SI7021#HUMIDITY DO PUBLISH v1/devices/me/telemetry

{"Humidity":%VALUE%} ENDON

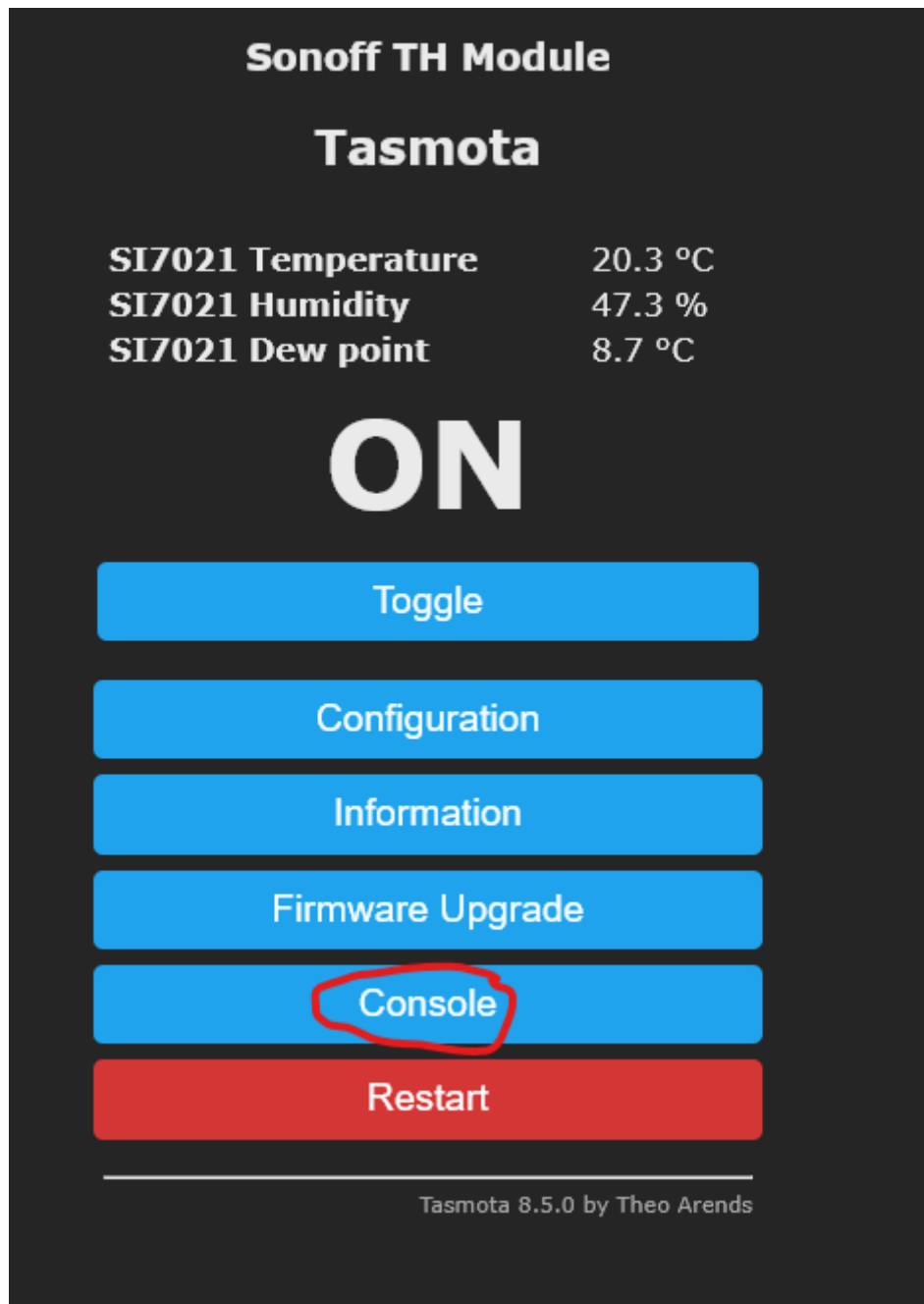
ON Tele-SI7021#DEWPOINT DO PUBLISH v1/devices/me/telemetry

{"DewPoint":%VALUE%} ENDON

Rule1 1

This can be copied and pasted into the device console.

The console is accessed through the main menu:



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