# **HOW-TO** Integration into Home Assistant

#### Important Note

Services like REST API and MQTT require a license. Please visit www.whatwatt.ch/pricing for more information.



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## 1. Introduction

This guide explains step-by-step how to integrate the WhatWatt GO device, which uses the MQTT protocol, with the Home Assistant system. The device publishes measurement data in JSON format on a single topic, allowing easy monitoring of parameters such as power, energy, and voltage.

# 2. Requirements

- whatwatt Go connected to local network
- Working Home Assistant system Version 14 or newer
- MQTT broker (e.g., Mosquitto) installed and running

# 3. Configure mqtt on whatwatt Go

## Step 1 · Access WebUI of whatwatt Go

Open your browser and enter the IP address of the WhatWatt GO device, e.g. http://192.168.1.100 into the address field

## Step 2 · Add MQTT Settings

Navigate to MQTT Settings in the WebUI

Enter the following details and activate mqtt

- Broker URL · mqtt://<broker\_address> (e.g. mqtt://192.168.1.101)
- Username and Password · Provide your MQTT broker credentials
- Client ID · whatwattGO (or any other unique identifier)
- **Topic energy/whatwatt/go** (or any other topic structure)
- Template (this is an example. Add/remove OBIS codes according to your needs. OBIS values delivered by your meter can be identified here WebUI > Live)

```
{
    "sys_id": "${sys.id}",
    "meter_id": "${meter.id}",
    "time": "${timestamp}",
    "power_in": ${1_7_0},
    "power_out": ${2_7_0},
    "energy_in": ${1_8_0},
    "energy_out": ${2_8_0},
    "voltage_11": ${32_7_0},
    "voltage_12": ${52_7_0},
    "voltage_13": ${72_7_0}
}
```

### Step 3 · Set Reporting Period

Navigate back to WebUI > System and set the "Interval to Systems" to 30 seconds

### 4. Configure Home Assistant

#### Step 1 · Add MQTT Broker to Home Assistant and verify that data is received by the broker

Please check the internet for the step

Enter topic energy/whatwatt/go into test field of you mqtt broker and hit Subscribe

## Step 2 $\cdot$ Configure Sensors

Add the sensors in configuration.yaml file to receive data from the whatwatt Go topic

```
mqtt:
  sensor:
  - name: "Power In"
   state_topic: "energy/whatwatt/go"
   value_template: "{{ value_json.power_in }}"
   unit_of_measurement: "kW"
  - name: "Power Out"
    state_topic: "energy/whatwatt/go"
   value_template: "{{ value_json.power_out }}"
    unit_of_measurement: "kW"
  - name: "Energy In"
    state_topic: "energy/whatwatt/go"
    value_template: "{{ value_json.energy_in }}"
    unit_of_measurement: "kWh"
  - name: "Energy Out"
    state_topic: "energy/whatwatt/go"
    value_template: "{{ value_json.energy_out }}"
    unit_of_measurement: "kWh"
  - name: "Voltage L1"
    state_topic: "energy/whatwatt/go"
    value_template: "{{ value_json.voltage_l1 }}"
    unit_of_measurement: "V"
  - name: "Voltage L2"
    state_topic: "energy/whatwatt/go"
    value_template: "{{ value_json.voltage_12 }}"
    unit_of_measurement: "V"
  - name: "Voltage L3"
    state_topic: "energy/whatwatt/go"
    value_template: "{{ value_json.voltage_13 }}"
    unit_of_measurement: "V"
```

### Step 3 · Restart Home Assistant

Save changes made in configuration.yaml and restart Home Assistant

## 5. Add Visualization

#### Step 1 · Check the Sensors

Go to **Developer Tools > States** in Home Assistant.

Verify that sensors like **sensor.power\_in**, **sensor.energy\_in**, or **sensor.voltage\_l1** display values

#### Step 2 · Add Sensors to the Dashboard

Navigate to **Overview** in Home Assistant and click **Edit Dashboard** 

Add an **Entity Card** widget for the desired sensors.

Save the changes to view the data on the dashboard.

After completing these steps, the WhatWatt GO device will be fully integrated with Home Assistant. The measurement data published by the device in JSON format will be correctly received and displayed in the system. This integration allows real-time monitoring of key parameters such as power, energy, and voltage.