Home Assistant User Manual

At Swidget, we continually strive to enhance our products and capabilities. For the most up-to-date instructions, follow the provided link or scan the QR code.

http://homeassistant.swidget.com

Components

Swidget Smart Home products are comprised of a HOST wiring device and one of an assortment of interchangeable smart Inserts.

HOST

INSERT

Each device combination has an assortment of **Control** capabilities, as well as **Sensor** capabilities. These are Home Assistant (HA) **Entities**.

Visit https://support.swidget.com for installation instructions for HOST wiring device.

Setup

1. Installation

Place a Wi-Fi Insert into the HOST wiring device. The Insert will take approximately one minute to initiate.

2. Discovery Mode

When the Insert is blinking green, it is in **Discovery Mode** and ready to be paired.

Note: For security purposes, your Swidget Insert remains in discovery mode for 5 minutes. If not broadcasting, remove and reinsert into device.

3. Firmware

Insert Firmware must be updated via the Swidget app before attempting to connect it to Home Assistant. Download the Swidget App from the iOS App Store or Google Play Store and follow the steps below to use the Swidget app to update the Insert firmware. QR code links are provided for helpful guidance on how to perform each of these steps.

Note Once updated, Insert/Device must be deleted from the Swidget App. At this time, you cannot use a Swidget Insert with Home Assistant and the Swidget App concurrently.**

1. Create a Swidget App user account

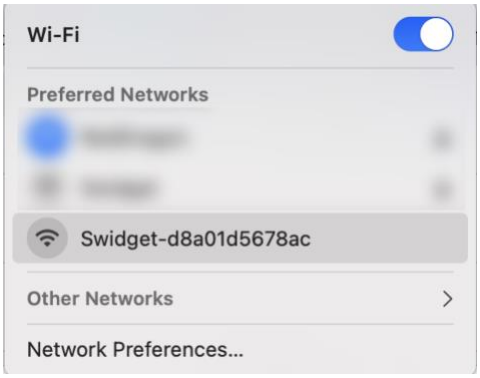
2. Pair Wi-Fi Insert to the Swidget App

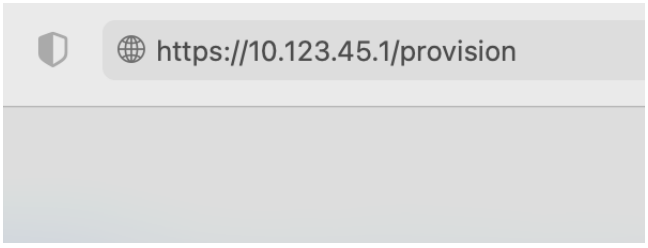
3. Update firmware

4. Delete Insert in the Swidget App

4. Local Provisioning

Once the firmware has been updated and the Insert has been removed from the Swidget App, it will return to Discovery Mode and begin blinking green. This will take about one minute. Connect your computer to the Swidget device's SSID/Wi-Fi Access Point and navigate to https://10.123.45.1/provision.





In the respective fields, enter the SSID and password of the network being used by the Home Assistant system.

Recommended – Add a **Device Name**. This will populate in Home Assistant Configurator.

When installing a Swidget 1P/3-Way Switch (S16001WA), select whether you are installing the switch for single-pole use, or if it is being used in a 3-way switch configuration.

Enter a user-defined security key in the **Set Key** field. Record this key as it will be required later in the provisioning process.

Select **Disable Authentication Method**.

Optional - **Set Static IP** address.

For optimal performance and reference during the Home Assistant connection steps, it is highly recommended that you note each device's IP address and mac address and reserve the IP address in your router settings.

5. Special Insert Notes

a. Temperature Calibration (for temperature sensor-enabled Swidget Inserts)

Once a device has reached steady state (approximately 40 minutes after boot-up), the device can be calibrated for optimized temperature readings. To calibrate a Swidget temperature sensor device, access the device's calibration portal by opening a web browser and navigating to https://192.168.###.###:90/calibrate. Two methods of calibration are supported, automatic and manual.

i. Automatic calibration requires the device to be removed after the calibration has been initiated and allowed to settle at room temperature for 45 minutes. The device can be reinstalled after the 45 minutes and should be allowed to reach steady state (approximately 40 minutes). For best results, perform the calibration when room temperatures are stable. Fans, vents or other sources of moving air should be kept away from inserts during the calibration sequence. To initiate, click Auto Calibrate.

ii. Manual calibration is much faster but requires the availability of an external reference temperature sensor. Enter the room temperature indicated by the external sensor in the Reference Temperature field and click update. The device should now be reading the correct temperature for its specific installation environment.

b. Air Quality Sensor Calibration

When first connected to a Swidget wiring device, after having been removed and re-inserted, or after a power-outage, the Swidget Air Quality sensor may report 0 or 25. It will take up to 30 minutes before reporting actual air quality levels.

Connecting your Device to Home Assistant

1. Installing Swidget Repository

Make sure that you have installed HACS on your Home Assistant server

Navigate to **HACS** from the left menu

Select **Integrations**

Select the ellipsis in the top right of the **Integrations** screen

Select **Custom Repositories**

Use the following link in the **Repository** field: https://github.com/michaelkkehoe/haswidget2

Select **Integration** from the **Category** dropdown

Select the **Swidget custom repository** and select **DOWNLOAD THIS REPOSITORY WITH HACS**

Select **Download**

Restart your Home Assistant server **Settings - System - Restart**

2. Installing Swidget Integration

Navigate to **Settings** from the left menu

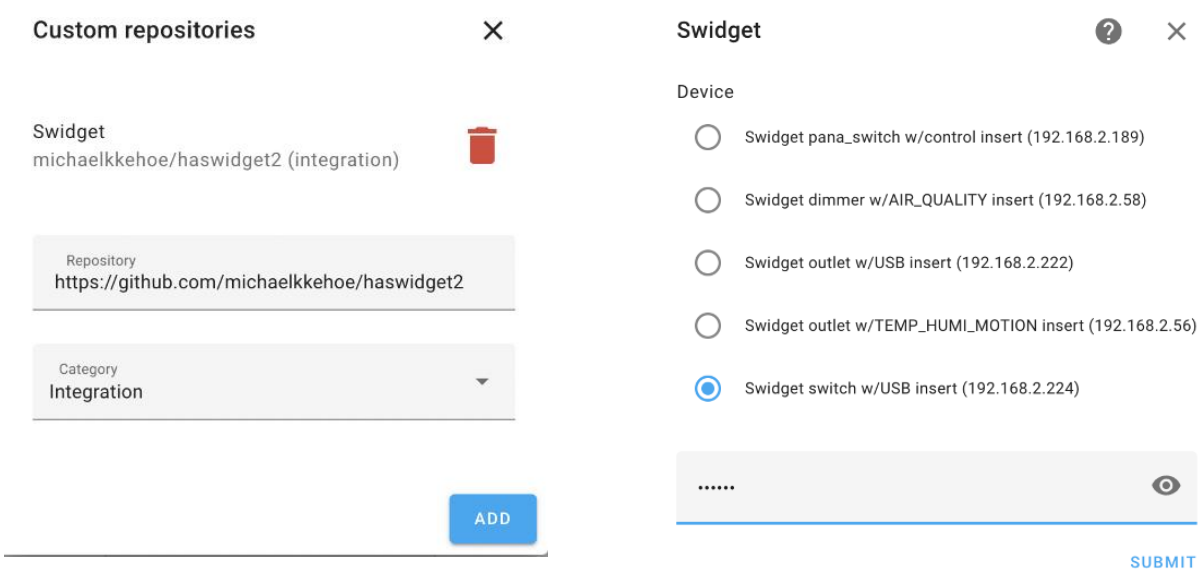
Select **Devices & Services**

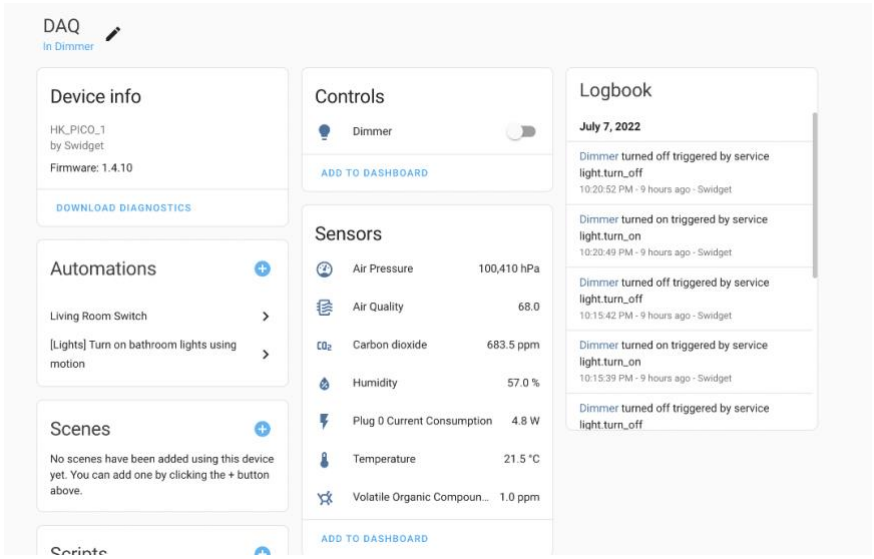
Select **ADD INTEGRATION** from the bottom right of the **Integrations** screen

Search for **Swidget** and select it

Click **Submit** to automatically find your Swidget devices or add manually with the IP address and key from the local provisioning step

Choose an **Area** and select **FINISH**





Using your Device

Navigate to **Overview** on the left menu

Here you will see your Swidget device controls and all of the monitoring entities

Click on any of the **Controls** or **Sensors** to find the corresponding **Entity ID**

Device/Controls

Dimmer
Switch
Controlled Outlet
USB Outlet

Entities

	Air Pressure	Air Quality	Carbon dioxide	Humidity	Motion	Plug 0 Current Consumption	Plug 1 Current Consumption	Signal Strength	Temperature	Volatile Organic Compounds
Control						√	√	√		
USB						√	√	√		
Guide Light						√	√	√		
Power Out Light						√	√	√		
Motion					√	√	√	√		
Temperature & Humidity				√		√	√	√	√	
Temperature, Humidity, & Motion				√	√	√	√	√	√	
Air Quality	√	√	√	√		√	√	√	√	√

Sample Automation

```
- alias: '[Lights] Turn on bathroom lights using motion'
  id: 'lights_bathroom_lights_motion_turn_on'
  trigger:
    - platform: state
      entity_id: sensor.motion
      from: 'off'
      to: 'on'
  action:
    - service: light.turn_on
      data:
        entity_id: light.dimmer
```

```
- alias: '[Lights] Turn off bathroom lights using motion'
  id: 'lights_bathroom_lights_motion_turn_offff'
  trigger:
    - platform: state
      entity_id: sensor.motion
      to: 'off'
      for:
         seconds: 150
  action:
    - service: light.turn_off
      entity_id: light.dimmer
```

Troubleshooting

Swidget SSID not broadcasting/Insert green light is not flashing

Remove Insert and replace in HOST device. Insert will remain in Discovery Mode for 5 minutes.

Swidget Provisioning Server is not working

Make sure you have the local firmware installed and that you are connected to the Swidget SSID.