

Home Assistant

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Password reset

```
auth reset --username existing_user --password new_password
```

Aqara H1 Tasten (Zigbee)

Quelle:

<https://community.home-assistant.io/t/aqara-h1-button-press-not-triggering-automation/389498/5>

Hi,

I had some problem, and it's because of the "operation mode" the switch is in. As you've found out, your switch will only trigger the "alternate" mode event rather than the individual sides.

Changing this is reasonably easy. Find the device from your devices/integration page.

Click manage clusters in bottom left.

Select the AqaraRemoteManuSpecificCluster option from the drop down.

Select "operation_mode" from the attribute drop down list:

image

Now click a switch button 5 times and as soon as the LED flashes blue click "get Zigbee Attribute". If Home Assistant can reach your switch the value will populate as "0" as in my last screenshot.

Now, change the value to "1" and the manufacturer override code as "4447".

Wake the device again by pressing a switch 5 times and as soon as it's flashing, hit the "set zigbee attribute button".

If this worked correctly, you should be able to go back to an automation and you'll find the left/right presses are now working as you'd expect. If not, go back to the cluster and the attribute mentioned below, and make sure when you "get" the attribute, it's coming back as "1" and not "0". If it comes back as "0" it means your "set" command didn't work and you'll have to keep trying to wake and set until it works :slight_smile:

Tasmota (Gosund SP111)

Web-UI

Nach dem Flashvorgang mit dem Tasmota WLAN verbinden, SSID-Name zb tasmota-1021. Danach die url

```
http://192.168.4.1
```

aufrufen und mit vorhandenem WLAN verbinden

Statische IP

In Tasmota Console statische IP-Adresse eingeben:

```
savedata 1  
ipaddress1 192.168.1.50  
savedata 0
```

Quelle: <https://www.smarthome-tricks.de/esp8266/tasmota-feste-ip-adresse-zuweisen/>

Gosund SP111 v1.1 Tasmota Template

unter Configuration > Configure Other bei Template eingeben:

```
{"NAME": "SP111 v1.1", "GPIO": [56, 0, 158, 0, 132, 134, 0, 0, 131, 17, 0, 21, 0], "FLAG": 0, "BASE": 45}
```

unter Configuration > Configure Module das SP111 v1.1 auswählen.

Quelle: https://templates.blakadder.com/gosund_SP111_v1_1

MQTT senden bei Änderung der Leistungsmessung um 10%

Console > `PowerDelta 10`

Quelle: <https://tasmota.github.io/docs/Commands/#powerdelta> und <https://github.com/arendst/Tasmota/discussions/14933>

Energiemessung kalibrieren

<https://tasmota.github.io/docs/Power-Monitoring-Calibration/#setup>

Calibration Procedure

1. Verify the **Power** reading in the web UI (optionally with the power meter as well) for the expected wattage. Adjust the power offset if needed (in Watts):

```
PowerSet 60.0
```

If you're using something other than a 60W bulb, enter your load's power rating

2. Verify the **Voltage** reading. Adjust the voltage offset if needed (in Volts):

```
VoltageSet <voltage>
```

Replace <voltage> with your standard voltage or with reading on your multi-meter if you have one. Your voltage will vary depending on the electrical standards and your electrical grid

3. Verify the **Current** reading by calculating current value (amperage) using this formula:

$P_{(W)}/V_{(V)}=I_{(A)}$. Adjust the current offset if needed (in milliAmps (mA=A*1000)):

```
CurrentSet <current>
```

Replace <current> with your calculated value (in milliAmps)

CurrentSet calculation:

$P/V=I \cdot 1000$ * Watts/Volts = milliAmperes

Example

```
1000*(60.0/235.5) = 254.777
```

1. Confirm the validity of your calibration process checking **Power Factor** from the web UI which should be as close as possible to `1.00`. In theory resistive loads will always provide a power factor of 1.00. If that is not the case, we recommend you repeat the calibration process and make sure everything was done correctly.

Tasmota Updaten

Beim Updaten folgende Reihenfolge der Versionen einhalten:

Upgrade Flow

v1.0.11  v3.9.22  v4.2.0  v5.14.0  v6.7.1  v7.2.0  v8.5.1  v9.1  Current release

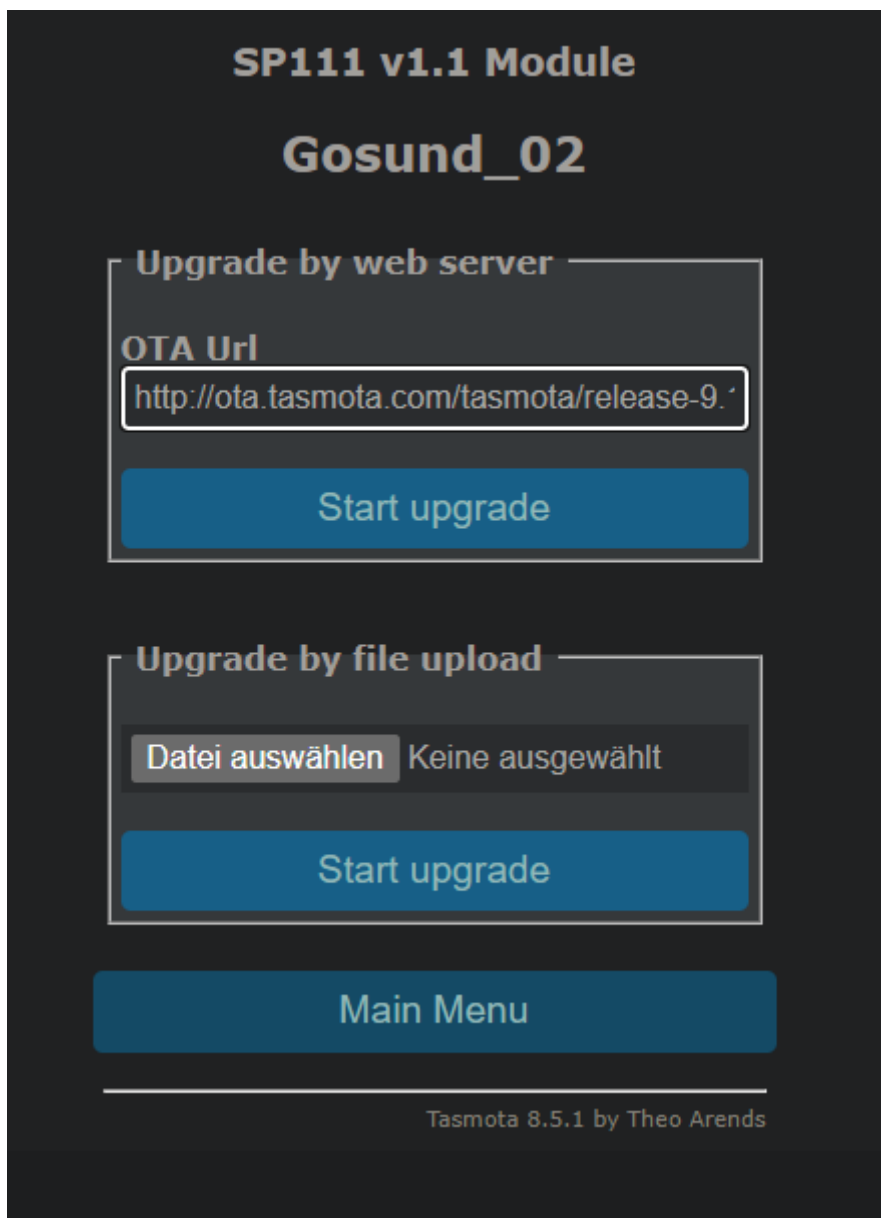
Links zum kopieren:

```
http://ota.tasmota.com/tasmota/release-7.2.0/tasmota-lite.bin  
http://ota.tasmota.com/tasmota/release-8.5.1/tasmota-lite.bin  
http://ota.tasmota.com/tasmota/release-9.1.0/tasmota-lite.bin.gz  
http://ota.tasmota.com/tasmota/release/tasmota.bin.gz
```

Quelle: <https://tasmota.github.io/docs/Upgrading/#upgrade-flow>

Link der tasmota.bin kopieren und in die Web-UI unter Firmware Upgrade > OTA Url eintragen

zb:



start upgrade.

BACKUP VON GOSUND_02 IM ANHANG DIESES EINTRAGS

Dezibelmesser mit ESPHome

<https://peyanski.com/diy-smart-sound-sensor-for-home-automation/>

<https://gist.github.com/peyanski/48691397d4cb1acfc4af56c0232342e2>

1. ESPHome als Add-On unter Home Assistant installieren
2. Add Device unter ESPHome
3. Open ESPHome Web - AM BESTEN CHROME VERWENDEN (nicht Brave)
4. USB Kabel mit ESP32 oder ESP8266 verbinden
5. COM Port auf ESPHome Web auswählen und 'Prepare for first install'
6. config in ESPHome editieren:

```
esphome:
  name: esphome-web-b1157d
  friendly_name: Dezibelmesser

esp8266:
  board: esp01_1m

# Enable logging
logger:

# Enable Home Assistant API
api:
  encryption:
    key: "ePn+9.....9kAn0CQ="

ota:

wifi:
  ssid: !secret wifi_ssid
  password: !secret wifi_password
  use_address: 192.168.178.58
  manual_ip:
    static_ip: 192.168.178.58
```

```
gateway: 192.168.178.1
subnet: 255.255.255.0

# Enable fallback hotspot (captive portal) in case wifi connection fails
ap:
  ssid: "Esphome-Web-B1157D"
  password: "bp1.....Ih"

captive_portal:

web_server:
  port: 80

# https://peyanski.com/diy-smart-sound-sensor-for-home-automation/
# https://gist.github.com/peyanski/48691397d4cb1acfc4af56c0232342e2
globals:

  - id: esphome_sensitivity
    type: float
    initial_value: '36.5'
    restore_value: yes

  - id: esphome_volume
    type: int

sensor:
  - platform: adc
    pin: A0
    id: esphome_db
    device_class: signal_strength
    name: "Db SoundEsp"
    icon: "mdi:volume-vibrate"
    unit_of_measurement: "db"
    update_interval: 2s
    raw: true
    filters:
      - lambda: |-
          unsigned int sample;
          unsigned long startMillis= millis();
          float peakToPeak = 0;
```

```
unsigned int signalMax = 0;
unsigned int signalMin = 1024;
while (millis() - startMillis < 500) {
  sample = analogRead(A0);
  if (sample < 1024){
    if (sample > signalMax){
      signalMax = sample;
    }
    else if (sample < signalMin){
      signalMin = sample;
    }
  }
}
peakToPeak = map((signalMax - signalMin),1,1024,1.5,1024);
id(esphome_volume) = peakToPeak;
float state = id(esphome_sensitivity)*log10(peakToPeak)+15;
return(state);
```

```
- platform: template
  name: "Volume SoundEsp"
  icon: "mdi:volume-high"
  unit_of_measurement: "%"
  update_interval: 2s
  lambda: return(map((id(esphome_db).state),15,150,0,100));
```

```
- platform: template
  name: "RAW SoundEsp"
  icon: "mdi:volume-source"
  unit_of_measurement: "%"
  update_interval: 2s
  lambda: return(map(id(esphome_volume),1,1024,0,100));
```

number:

```
- platform: template
  id: sensitivity_slider
  name: "Sensitivity SoundEsp"
  icon: "mdi:knob"
  update_interval: 5s
  initial_value: "36.5"
  step: 0.1
  min_value: 20
```

```
max_value: 40
mode: slider
set_action:
  then:
    - lambda: id(esphome_sensitivity) = x;
```

7. In Home Assistant zu Dienste & Geräte gehen und das gefundene ESPHome Gerät (Dezibelmesser) einbinden:

The screenshot displays the ESPHome dashboard interface. At the top right, the ESPHome logo is visible. The main content is organized into several panels:

- Gerät Informationen:** Shows device details for 'esp01_1m' (Espressif), including firmware version (2023.11.2) and MAC address (84:0D:8E:B1:15:7D). A 'BESUCHEN' button is present.
- Steuerelemente:** Features a slider control for 'Sensitivity Sou...' with a blue indicator dot. A 'ZUM DASHBOARD HINZUFÜGEN' button is below.
- Sensoren:** Lists three sensors: 'Db SoundEsp' (15,00 db), 'RAW SoundEsp' (0,0 %), and 'Volume SoundEsp' (0,0 %). A 'ZUM DASHBOARD HINZUFÜGEN' button is at the bottom.
- Konfiguration:** Shows 'Firmware' status as 'Aktuell' with a 'ZUM DASHBOARD HINZUFÜGEN' button.
- Logbuch:** A log for '21. November 2023' with entries: 'Dezibelmesser Sensitivity SoundEsp wechselte zu 36,5', 'Dezibelmesser Firmware ausgeschaltet', 'Dezibelmesser Sensitivity SoundEsp nicht mehr verfügbar', 'Dezibelmesser Firmware nicht mehr verfügbar', and 'Dezibelmesser Sensitivity SoundEsp wechselte zu 36,5'.
- Automatisierungen, Szenen, Skripte:** Each section has a plus icon and a message: 'Es wurden noch keine [Automatisierungen/Szenen/Skripte] mit diesem Gerät hinzugefügt. Zum Hinzufügen drücke die + Schaltfläche.'

Bugfix: Speedtest nicht verfügbar

<https://github.com/home-assistant/core/issues/100001#issuecomment-1817546313>

```
alias: Speedtest integration reload when unavailable
description: >-
  Force speedtest when download unavailable for several minutes. Fix for
  accidental failure of the integration.
trigger:
  - platform: state
    entity_id:
      - sensor.speedtest_download
    to: unavailable
    for:
      hours: 0
      minutes: 5
      seconds: 0
condition: []
action:
  - service: homeassistant.update_entity
    data: {}
    target:
      entity_id: sensor.speedtest_download
mode: single
```

HA-VM installieren mit virt-install unter Linux Ubuntu

```
sudo apt update
sudo apt install -y qemu-kvm libvirt-daemon-system libvirt-clients bridge-utils virtinst
sudo adduser $USER libvirt
# Neu einloggen oder 'newgrp libvirt' damit die Gruppe aktiv wird
```

```
# Namen deines Ethernet-Interfaces herausfinden:
ip link show

# gucken, ob vorhanden yamls im verzeichnis /etc/netplan sind (zb durch cloud-init mit prio
50-cloud-init.yaml) und diese anpassen oder mit höherer prio setzen
# sudo nano /etc/netplan/01-netcfg.yaml
network:
  version: 2
  ethernets:
    enp3s0:          # ← deinen Interface-Namen eintragen
      dhcp4: false
  bridges:
    br0:
      interfaces: [enp3s0]
      dhcp4: true
      parameters:
        stp: false
        forward-delay: 0

sudo chmod 600 /etc/netplan/01-netcfg.yaml
sudo netplan try

sudo netplan apply
ip addr show br0  # br0 sollte jetzt eine IP haben
```

```
wget https://github.com/home-assistant/operating-system/releases/download/17.1/haos_ova-17.1.qcow2.xz
```

```
xz -d haos_ova-17.1.qcow2.xz
```

```
sudo mv haos_ova-17.1.qcow2 /var/lib/libvirt/images/homeassistant.qcow2
```

```
sudo chown libvirt-qemu:kvm /var/lib/libvirt/images/homeassistant.qcow2
```

```
sudo virt-install \  
  --name homeassistant \  
  --description "Home Assistant OS" \  
  --os-variant generic \  
  --ram 4096 \  
  --vcpus 4 \  
  --disk /var/lib/libvirt/images/homeassistant.qcow2,bus=scsi \  
  --controller type=scsi,model=virtio-scsi \  
  --network bridge=br0,model=virtio \  
  --graphics none \  
  --boot uefi \  
  --import \  
  --noautoconsole
```

```
# Mit --noautoconsole bleibt das Terminal frei
```

```
### Optional mit USB-Device durchschleifen:
```

```
lsusb
```

```
#output zb:
```

```
#Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
```

```
#Bus 003 Device 004: ID 30c9:0052 Luxvisions Innotech Limited Integrated RGB Camera
```

```
#Bus 003 Device 003: ID 1a86:55d4 QinHeng Electronics SONOFF Zigbee 3.0 USB Dongle Plus V2
```

```
# Zigbee Dongle bei "Bus 003 Device 003" somit
```

```
# --hostdev 003.003
```

```
# an Befehl anhängen:
```

```
sudo virt-install \  
  --name homeassistant \  
  --description "Home Assistant OS" \  
  --os-variant generic \  
  --ram 4096 \  
  --vcpus 4 \  
  --disk /var/lib/libvirt/images/homeassistant.qcow2,bus=scsi \  
  --controller type=scsi,model=virtio-scsi \  
  --network bridge=br0,model=virtio \  
  --graphics none \  
  --boot uefi \  
  --import \  
  --noautoconsole \  
  --hostdev 003.003  
# oder besser ID (vendor:product) aus lsusb holen  
  --hostdev 10c4:ea60  
# oder für's hinzufügen im Nachhinein:  
sudo virsh attach-device homeassistant /dev/stdin --persistent << EOF  
<hostdev mode='subsystem' type='usb' managed='yes'>  
  <source>  
    <vendor id='0x10c4' />  
    <product id='0xea60' />  
  </source>  
</hostdev>  
EOF
```

```
sudo virsh list --all  
  
# Nach ca. 2–3 Minuten IP abfragen (wird evtl nicht angezeigt weil VM den QEMU Guest Agent  
benötigt. Siehe unten um IP herauszufinden)  
sudo virsh domifaddr homeassistant  
  
# VM zum Autostart hinzufügen  
sudo virsh autostart homeassistant  
  
# Auf Console der VM zugreifen (escape aus der Console mit STRG+])  
sudo virsh console homeassistant
```

```
# Login username VM-Console
homeassistant login: root

# IP aus VM-Console herausfinden
ha network info
# zeigt etwa sowas an:
# ha network info
#docker:
# address: 172.30.32.0/23
# dns: 172.30.32.3
# gateway: 172.30.32.1
# interface: hassio
#host_internet: true
#interfaces:
#- connected: true
# enabled: true
# interface: enp0s2
# ipv4:
#   address:
#     - 10.1.1.242/24

# Home Assistant einrichten
Nach ca. 5–10 Minuten (erster Boot bereitet das System vor) im Browser aufrufen:
http://<IP-der-VM>:8123

oder falls mDNS im LAN funktioniert:
http://homeassistant.local:8123
```

hilfreiche cmds:

```
sudo virsh list --all # Status aller VMs
sudo virsh shutdown homeassistant # Sauber herunterfahren
sudo virsh snapshot-create-as homeassistant snap-vor-update # Snapshot anlegen
sudo virsh console homeassistant # In Shell der VM gehen
```