

Home Assistant

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Fronius PV einbinden

```
# in die Datei /homeassistant/configuration.yaml einbauen
...
template:
  - sensor:
    - name: "Battery Power Charging"
      unit_of_measurement: W
      device_class: power
      state: "{{ max(0, 0 - states('sensor.solarnet_power_battery') | float(default=0)) }}"
    - name: "Battery Power Discharging"
      unit_of_measurement: W
      device_class: power
      state: "{{ max(0, states('sensor.solarnet_power_battery') | float(default=0)) }}"
    - name: "Power Photovoltaics"
      unit_of_measurement: W
      device_class: power
      state: "{{ states('sensor.solarnet_power_photovoltaics') | float(default=0) }}"
    - name: "Netzbezug"
      unit_of_measurement: W
      device_class: power
      state: "{{ states('sensor.solarnet_leistung_netzbezug') | float(default=0) }}"
    - name: "Netzeinspeisung"
      unit_of_measurement: W
      device_class: power
      state: "{{ states('sensor.solarnet_leistung_netzeinspeisung') | float(default=0) }}"

sensor:
  - platform: integration
    source: sensor.battery_power_charging
    name: "Total Battery Energy Charged"
    unique_id: "myuuid_1234"
    unit_prefix: k
    method: left
  - platform: integration
    source: sensor.battery_power_discharging
    name: "Total Battery Energy Discharged"
```

```
unique_id: "myuuid_1235"
unit_prefix: k
method: left
- platform: integration
  source: sensor.power_photovoltaics
  name: "Total Photovoltaics Energy"
  unique_id: "myuuid_1236"
  unit_prefix: k
  method: left
- platform: integration
  source: sensor.netzbezug
  name: "Totaler Netzbezug"
  unique_id: "myuuid_1237"
  unit_prefix: k
  method: left
- platform: integration
  source: sensor.netzeinspeisung
  name: "Totale Netzeinspeisung"
  unique_id: "myuuid_1238"
  unit_prefix: k
  method: left
```

Quelle: <https://kofler.info/fronius-wechselrichter-in-home-assistant-einbinden/>

Xiaomi Smart Devices

NAME: Bad Eg
ID: 77726756
MAC: 78:11:DC:AB:C3:DB
IP: 192.168.0.142
TOKEN: 68471cab5e8f5d92f9cb64ce4694387f
MODEL: yeelink.light.ceiling1

NAME: Bad OG (Farbe)
ID: 131153750
MAC: 04:CF:8C:84:AE:84
IP: 192.168.0.135
TOKEN: 095ccb1783aa83cb87d63381650d8bc1
MODEL: yeelink.light.color2

NAME: Viola
ID: 131399194
MAC: 04:CF:8C:88:6D:48
IP: 192.168.0.139
TOKEN: 9f190efb06b2ad0f8fc395f570f7c937
MODEL: yeelink.light.ct2

NAME: Schlafzimmer (weiß)
ID: 131408275
MAC: 04:CF:8C:88:90:C1
IP: 192.168.0.140
TOKEN: fe8557b3f5dbd2fe8ea953278bdb03f3
MODEL: yeelink.light.ct2

NAME: Roborock
ID: 262063414
MAC: 50:EC:50:1E:0A:0F
IP: 192.168.0.42
TOKEN: 4e4b4942326f4e4351427372374e554c
MODEL: roborock.vacuum.s5

NAME: Viomi
ID: 428598805
MAC: C0:E7:BF:58:36:60
IP: 192.168.0.43
TOKEN: 73717a4562337a6a6c47433446666c4f
MODEL: viomi.vacuum.v6

Clients einbinden

Linux: [Inx link](#)

Windows: [IOT Link](#) besser: [Hass.Client](#)

Touch PC

Unified Remote:

<https://www.unifiedremote.com/tutorials/how-to-install-unified-remote-server-deb-via-terminal>

KWL Pluggit

```
//
// @author Helge Klug
// @copyright Copyright (c) 2018 Helge Klug
// @version 1.10
//
// @see
http://www.pluggit.com/fileserver/files/1413/609560454939420/21\_10\_2013\_modbus\_addresses.pdf

// Register: 40025 | prmFWVersion | UINT | Read | FW Version: Major(8bits) and Minor (8bi
// Register: 40101 | prmHALTaho1 | Float | Read | Fan1 rpm
// Register: 40103 | prmHALTaho2 | Float | Read | Fan2 rpm
// Register: 40109 | prmDateTime | UINT | Read | Current Date/time in Unix time
// Register: 40109 | prmDateTimeSet | UINT | Write | New date/time in Unix time
// Register: 40133 | prmRamIdxT1 | Float | Read | Outdoor temperature T1, °C
// Register: 40135 | prmRamIdxT2 | Float | Read | Supply temperature T2, °C
// Register: 40137 | prmRamIdxT3 | Float | Read | Extract temperature T3, °C
// Register: 40139 | prmRamIdxT4 | Float | Read | Exhaust temperature T4, °C
// Register: 40161 | prmPreheaterDutyCycle | UINT | Read | Power of Preheater in %
// Register: 40169 | prmRamIdxUnitMode | UINT | Write | Active Unit mode:
// | Read | Demand Mode 0x0002
// | Manual Mode 0x0004
// | WeekProgram Mode 0x0008
//
// | Away Mode Start 0x0010
// | Away Mode End 0x8010 40169
//
// | Fireplace Mode Start 0x0040 64
// | Fireplace Mode End 0x8040 32832
//
// | Summer Mode Start 0x0800 2048
// | Summer Mode End 0x8800 34816
//
// | Select manual bypass 0x0080 128
// | Deselect Manual bypass 0x8080 32896
//
```

```
//Register: 40199 | prmRamIdxBypassActualState | UINT | Read | Bypass state:
//0 Closed 0x0000
//1 In process 0x0001
//32 Closing 0x0020
//64 Opening 0x0040
//255 Opened 0x00FF
//
//Register: 40265 | prmRamIdxBypassManualTimeout | UINT | Read | Manual bypass duration in m
//
//Register: 40325 | prmRomIdxSpeedLevel | UINT | Write | Speed level of Fans -> Manual m
step can be set
//40325 | prmRomIdxSpeedLevel | UINT | Read | Speed level of Fans -> Other modes: Fan
read.
//Register: 40445 | prmBypassTmin | Float | Read | Min temperature for outdoor air (T1)
//Register: 40447 | prmBypassTmax | Float | Read | Max temperature for extract air (T3)
//Register: 40473 | prmCurrentBLState | UINT | Read | Current unit mode:
//0 Standby
//1 Manual
//2 Demand
//3 Week program
//4 Servo-flow
//5 Away
//6 Summer
//7 DI Override
//8 Hygrostat override
//9 Fireplace
//10 Installer
//11 Fail Safe 1
//12 Fail Safe 2
//13 Fail Off
//14 Defrost Off
//15 Defrost
//
//Register: 40555 | prmFilterRemainingTime | UINT | Read | Remaining time of the Filter L
(Days)
//Register: 40557 | prmFilterDefaultTime | UINT | Write | Filter Lifetime (Days)
// | Read |
//Register: 40559 | prmFilterReset | UINT | Write | Reset filter timer
// | Reset filter timer
//Register: 40625 | prmWorkTime | UINT | Read | Work time of system, in hours
```

```

//Register:40669 | prmStartExploitationDateStamp| UINT| Read|Date Stamp of the system s
time in Unix time
//      Register:40431 | prmVOC | UINT| Read|VOC sensor value (read from VOC); ppm.
not installed, then 0.
//Register:40563 | prmPPM1Unit | UINT| Read|Low Treshold of VOC (ppm)
//Register:40565 | prmPPM2Unit | UINT| Read|Low Treshold of VOC (ppm)
//Register:40567 | prmPPM3Unit | UINT| Read|Low Treshold of VOC (ppm)
//

Bridge modbus:tcp:PluggitAP310 [ host="192.168.0.15", port=502, id=2 ] {

//-----
//Status:OK
//
Bridge poller prmFWVersion[ start=25,length=4, refresh=5000,type="holding" ] {
Thing data register[ readStart="25",readValueType="uint32" ]
}
}
//-----
//Status:OK
//
Bridge poller prmHALTaho1[ start=101,length=4, refresh=5000,type="holding" ] {
Thing data register[ readStart="101",readValueType="float32" ]
}

//-----
//Status:OK
//
Bridge poller prmHALTaho2[ start=103,length=4,refresh=5000,type="holding" ] {
Thing data register[ readStart="103",readValueType="float32" ]
}

//-----
//Status:OK
//
Bridge poller prmDateTime[ start=108,length=4,refresh=5000,type="holding" ] {
Thing data register[ readStart="108",readValueType="int64" ]
Thing data registerDateTime[ readStart="108",readValueType="int64",
readTransform="JS(EpocheToDateTime.js)" ]
}
}

```

```
//-----  
//Status:???  
//  
Bridge poller prmDateTimeSet[ start=108,length=4,refresh=5000,type="holding" ] {  
Thing data register[ writeStart="108", writeValueType="int64", writeType="holding" ]  
}  
  
//-----  
//Status:OK  
//  
Bridge poller prmRamIdxT1[ start=133,length=4,refresh=5000,type="holding" ] {  
Thing data register[ readStart="133",readValueType="float32" ]  
}  
  
//-----  
//Status:OK  
//  
Bridge poller prmRamIdxT2[ start=135,length=4,refresh=5000,type="holding" ] {  
Thing data register[ readStart="135",readValueType="float32" ]  
}  
  
//-----  
//Status:OK  
//  
Bridge poller prmRamIdxT3[ start=137,length=4,refresh=5000,type="holding" ] {  
Thing data register[ readStart="137",readValueType="float32" ]  
}  
  
//-----  
//Status:OK  
//  
Bridge poller prmRamIdxT4[ start=139,length=4,refresh=5000,type="holding" ] {  
Thing data register[ readStart="139",readValueType="float32" ]  
}  
  
//-----  
//Status:???  
//  
Bridge poller prmPreheaterDutyCycle[ start=160,length=2,refresh=5000,type="holding" ] {
```

```

[]Thing data register[] [] [ readStart="160",[]readValueType="uint32_swap" ]
[]}

[]//-----
[]//[]Status[]:[]??
[]//
[]Bridge poller prmRamIdxUnitMode[] [] [ start=168,[]length=4,[]refresh=5000,[]type="holding" ] {
[]Thing data register[] [] [ readStart="168",[]readValueType="int64_swap", writeStart="169",[]
writeValueType="int64_swap", writeType="holding" ]
[]}

[]//-----
[]//[]Status[]:[]OK
[]//
[]Bridge poller prmRamIdxBypassActualState[] [ start=198,[]length=4,[]refresh=5000,[]type="holding"
[]Thing data register[] [] [ readStart="198",[]readValueType="uint32_swap" ]
[]}

[]//-----
[]//[]Status[]:[]OK
[]//
[]Bridge poller prmRamIdxBypassManualTimeout[] [ start=264,[]length=4,[]refresh=5000,[]type="holding"
[]Thing data register[] [] [ readStart="264",[]readValueType="uint32_swap" ]
[]}

[]//-----
[]//
[]//[]Status[]:[]OK
[]//
[]Bridge poller prmRomIdxSpeedLevel[] [] [ start=324,[]length=4,[]refresh=5000,[]type="holding" ] {
[]Thing data[]register[] [] [ readStart="324",[]readValueType="int64_swap", writeStart="324",[]
writeValueType="int64_swap", writeType="holding" ] //uint32
[]}

[]//-----
[]//Anpassung Christoph!
[]//Status: ???

[]Bridge poller prmVOC [] [] [ start=430,[]length=4, refresh=5000,[]type="holding" ] {
[]Thing data register[] [] [ readStart="430",[]readValueType="uint32_swap" ]

```

```

    }
    }
    //-----
    //
    //Status:OK
    //
    Bridge poller prmBypassTmin[ start=445,length=4,refresh=5000,type="holding" ] {
    Thing data register[ readStart="445",readValueType="float32" ]
    }

    //-----
    //Status:OK
    //
    Bridge poller prmBypassTmax[ start=447,length=4,refresh=5000,type="holding" ] {
    Thing data register[ readStart="447",readValueType="float32" ]
    }

    //-----
    //Status:OK
    //
    Bridge poller prmCurrentBLState[ start=472,length=4,refresh=5000,type="holding" ] {
    Thing data register[ readStart="472",readValueType="uint32_swap" ]
    }

    //-----
    //Status:OK
    //
    Bridge poller prmFilterRemainingTime[ start=554,length=4,refresh=5000,type="holding" ] {
    Thing data register[ readStart="554",readValueType="uint32_swap" ]
    }

    //-----
    //Status:OK
    //
    Bridge poller prmFilterDefaultTime[ start=556,length=4,refresh=5000,type="holding" ] {
    Thing data register[ readStart="556",readValueType="int64",writeStart="556",
    writeValueType="int64",writeType="holding" ]
    }

```

```

//-----
//Status:
//
Bridge poller prmFilterReset[ start=558,length=4,refresh=5000,type="holding" ] {
  Thing data register[ readStart="558",readValueType="int64", writeStart="558",
writeValueType="int64", writeType="holding" ]
}

//-----
//
//Status:
//
Bridge poller prmWorkTime[ start=624,length=4,refresh=5000,type="holding" ] {
  Thing data register[ readStart="624",readValueType="uint32_swap" ]
}

//-----
//
//Status:OK
Bridge poller prmStartExploitationDateStamp[ start=668,length=4,refresh=5000,type="holdin
{
  Thing data register[ readStart="668",readValueType="uint32_swap" ]
  Thing data registerDateTime[ readStart="668",readValueType="uint32_swap",
readTransform="JS(EpocheToDateTime.js)" ]
}
}

```

Beschattungsautomatik

Ausrichtung Haus überprüfen: [Sonnenatlas Bayern](#)

```
alias: Sonnenstand Fassade
description: ""
triggers:
  - entity_id: sensor.sun_solar_azimuth
    trigger: state
conditions: []
actions:
  - choose:
    - conditions:
      - condition: template
        value_template: "{{ 0 < states('sensor.sun_solar_azimuth') | float < 73 }}"
      sequence:
        - target:
            entity_id: input_boolean.sonne_ostseite
            action: input_boolean.turn_on
            data: {}
        - target:
            entity_id:
              - input_boolean.sonne_sudseite
              - input_boolean.sonne_westseite
            action: input_boolean.turn_off
            data: {}
    - conditions:
      - condition: template
        value_template: "{{ 73 <= states('sensor.sun_solar_azimuth') | float < 162 }}"
      sequence:
        - target:
            entity_id:
              - input_boolean.sonne_ostseite
              - input_boolean.sonne_sudseite
            action: input_boolean.turn_on
```

```
    data: {}
  - target:
    entity_id: input_boolean.sonne_westseite
    action: input_boolean.turn_off
    data: {}
- conditions:
  - condition: template
    value_template: "{{ 162 <= states('sensor.sun_solar_azimuth') | float < 253 }}"
sequence:
  - target:
    entity_id:
      - input_boolean.sonne_sudseite
      - input_boolean.sonne_westseite
    action: input_boolean.turn_on
    data: {}
  - target:
    entity_id: input_boolean.sonne_ostseite
    action: input_boolean.turn_off
    data: {}
- conditions:
  - condition: template
    value_template: "{{ states('sensor.sun_solar_azimuth') | float >= 253 }}"
sequence:
  - target:
    entity_id: input_boolean.sonne_westseite
    action: input_boolean.turn_on
    data: {}
  - target:
    entity_id:
      - input_boolean.sonne_ostseite
      - input_boolean.sonne_sudseite
    action: input_boolean.turn_off
    data: {}
```

mode: single