Controller van derden

Het product kan ook worden gekoppeld aan een controller van derden. U kunt externe controllers aansluiten met behulp van het Modbus-protocol, behalve bij een LG-controller. Als een controller van derden wordt gebruikt, wordt de LG-controller niet tegelijkertijd op AWHP toegepast.

Hoe een controller van derden te installeren

Volg de onderstaande procedures met stap 1 tot 4.

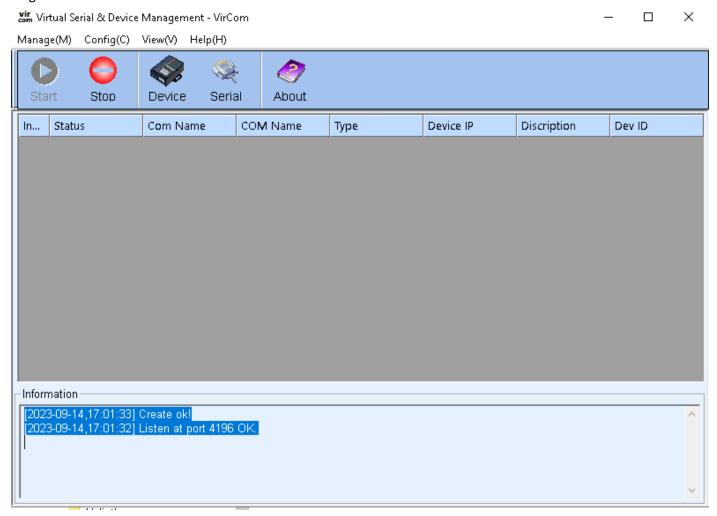
- Stap 1. Controleer of de voeding van het apparaat is uitgeschakeld.
- Stap 2. Demonteer de voorpanelen en zoek de schakelkast (binnen) van het apparaat.
- Stap 3. Controleer of de kabelboom (wit) volledig in de printplaat van de binnenunit (CN_COM) zit.
- Stap 4. Sluit de controller van derden goed aan op klemmenblok 2 (11/12). (inclusief de meterinterfacemodule)

26	27	
26	27	
1(L)	2(N)	
CONTR	OLLER	
VAN DI	ERDEN	
(DC	5 V)	
1(L)	2(N	
•	•	
CONTR	ROLLER	
van DEF	RDEN of	
METER	INTER-	
FACE	E(LG)	

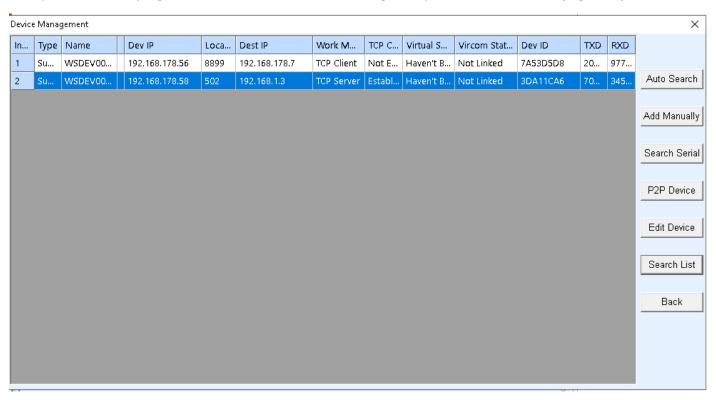




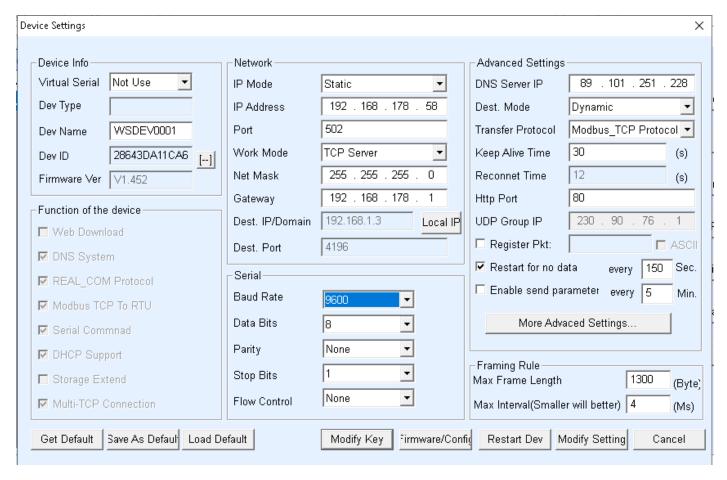
Om de Waveshare gateway te configureren gebruik je het programma VirCom.exe. Na het starten krijg je het volgende scherm:



Klik op "Device". Het programma zal zoeken naar beschikbare gateways in het netwerk. In mijn geval zijn dat er 2.



Selecteer de juiste gateway en klik op "Edit Device":



Je kunt nu de gateway configureren met de voor jou benodigde parameters:

IP Mode: Static

IP Addres: Vul hier je lokaal IP adres voor de gateway

Port: 502

Work Mode: TCP Server Net Mask: 255.255.255.0

Gateway: Vul hier je lokaal IP adres in van je Acces Point of Modem

Dest. IP/Domain: 192.168.1.3

Dest. Port: 4196
Serial: 9600
Data Bits: 8
Parity: None
Stop Bits: 1
Flow Control: None

DNS Server IP: Vul hier een geschikte DNS server adres in

Desst. Mode: Dynamic

Transfer Protocol: Modbus TCP Protocol

Keep Alive Time: Vul hier een tijd in waarbinnen normal gesproken communicatie plaats vindt. Als je maar 1

keer minuut gegevens afvraagt, dan moet deze tijd langer dan 60 s gezet worden.

Http Port: 80

Restart for no data: Vul hier een tijd in, wanneer automatisch een connectie moet worden gemaakt nadat de

verbinding is uitgevallen

Max Frame Length: 1300 Byte

Max Interval: 4 Ms

Instellingen LG:

Dipswitches:

Optie schakelaar 1

Beschrijving	Instelling		Standaard
MODBUS -communicatietype	1 📗	Als Master (LG-uitbreidingsmodules)	1 ,
	1 1	Als slaaf (controller van derden)	u u
MODBUS-functie 2	2 🌡	REGINE	2 N
	(2 1)	Uniform open protocol	2
Antivriesmiddel	8 []	Er wordt geen antivriesmiddel gebruikt	8.
	8 ¶	Er wordt antivriesmiddel gebruikt *	d d



Instellingen:

Modbus adres op 01.



Modbus adressen:

Input

40009

40010

DHW Target temp. [0.1 °C ×10]

Energy state input 0..8

```
Register
           Description
  30001
           Error Code
  30002
           ODU operation Cycle 0 : Standby(OFF) / 1 : Cooling / 2 : Heating
  30003
           Water inlet temp. [0.1 °C ×10]
  30004
           Water outlet temp. [0.1 °C ×10]
  30005
           Backup heater outlet temp. [0.1 °C ×10]
  30006
           DHW tank water temp. [0.1 °C ×10]
           Solar collector temp. [0.1 °C ×10]
  30007
  30008
           Room air temp. (Circuit 1) [0.1 °C ×10]
           Current Flow rate [0.1 LPM ×10]
  30009
  30010
           Flow temp. (Circuit 2) [0.1 °C ×10]
  30011
           Room air temp. (Circuit 2) [0.1 °C ×10]
  30012
           Energy State input 0: Energy state 0; 1: Energy state 1....
  30013
           Outdoor Air temp. [0.1 °C ×10]
  30014
  30015
  30016
  30017
           Pipe in temp [0.1 °C ×10]
  30018
           Pipe out temp [0.1 °C ×10]
  30019
           Suction temp [0.1 °C ×10]
  30020
           Fan [rpm]
           HEX temp [0.1 °C ×10]
  30021
  30022
  30023
           HighPress [mBar]
  30024
           LowPress [mBar]
  30025
           Inverter [Hz]
  39998
           Produc Group 0x8X (0x80, 0x83, 0x88, 0x89)
  39999
           Product Info. Split: 0 / Monobloc: 3 / High Temp.: 4 / Medium Temp.: 5 / System Boiler: 6
Holding
 Register
           Description
  40001
           Operation Mode 0 : Cooling / 4 : Heating / 3 : Auto
  40002
           Control method (Circuit 1/2) 0: Water outlet temp. Control 1: Water inlet temp. Control 2: Room air control
  40003
           Target temp (Heating/Cooling) Circuit 1 [0.1 °C ×10]
  40004
           Room Air Temp. Circuit 1 [0.1 °C ×10]
  40005
           Shift value(Target) in auto mode Circuit 1 1K
  40006
           Target temp (Heating/Cooling) Circuit 2 [0.1 °C ×10]
  40007
           Room Air Temp. Circuit 2 [0.1 °C ×10]
  40008
           Shift value(Target) in auto mode Circuit 2 1K
```

Discrete

Register	Description
10001	•
	Water flow status 0 : Flow rate ok / 1 : Flow rate too low
10002	Water Pump status 0 : Water Pump OFF / 1 : Water Pump ON
10003	Ext. Water Pump status 0 : Water Pump OFF / 1 : Water Pump ON
10004	Compressor status 0 : Compressor OFF / 1 : Compressor ON
10005	Defrosting status 0 : Defrost OFF / 1 : Defrost ON
10006	DHW heating status (DHW Thermal On/Off) 0 : DHW inactive / 1 : DHW active
10007	DHW Tank disinfection status 0 : Disinfection inactive / 1 : Disinfection active
10008	Silent mode status 0 : Silent mode inactive / 1 : Silent mode active
10009	Cooling status 0 : No cooling / 1 : Cooling operation
10010	Solar pump status 0 : Solar pump OFF / 1: Solar pump ON
10011	Backup heater (Step 1) status 0 : OFF / 1 : ON
10012	Backup heater (Step 2) status 0 : OFF / 1 : ON
10013	DHW boost heater status 0 : OFF / 1 : ON
10014	Error status 0 : no error / 1 : error state
10015	Emergency Operation Available (Space heating/cooling) 0 : Unavailable / 1 : Available
10016	Emergency Operation Available (DHW) 0 : Unavailable / 1 : Available
10017	Mix pump status 0 : Mix pump OFF / 1 : Mix pump ON

Coil

Register	Description
00001	Enable/Disable (Heating/Cooling) 0 : Operation OFF / 1 : Operation ON
00002	Enable/Disable (DHW) 0 : Operation OFF / 1 : Operation ON
00003	Silent Mode Set 0 : Silent mode OFF / 1 : Silent mode ON
00004	Trigger Disinfection operation 0 : Keep status / 1 : Operation start
00005	Emergency Stop 0 : Normal operation / 1 : Emergency stop
00006	Trigger Emergency Operation 0 : Keep status / 1 : Operation Start

HomeAssistant

Configurations.yaml

```
# Loads default set of integrations. Do not remove
default_config:
automation: !include automations.yaml
script: !include scripts.yaml scene: !include scenes.yaml
modbus:
   host: 192.168.178.58
port: 502
name: "lg_modbus"
retry_on_empty: true
retries: 10
sensors:
      sensors:
       ##input
          - name: lg_error_code
scan_interval: 120
address: 0
slave: 1
             input_type: input
          - name: lg_water_inlet_temp
scale: 0.1
precision: 1
             scan interval: 15
             address: 2
slave: 1
             unit of measurement: °C
             input_type: input
          - name: lg_water_outlet_temp
  scale: 0.1
             precision: 1
             scan_interval: 15
            scan_interval: 15
address: 3
slave: 1
unit_of_measurement: °C
input_type: input
          - name: lg_dhw_water_temp scale: 0.1
             precision: 1
             scan_interval: 30
             address: 5 slave: 1 unit_of_measurement: °C
             input_type: input
            name: lg_room_air_temp_circuit1
scale: 0.1
precision: 1
             scan_interval: 60
address: 7
slave: 1
             unit_of_measurement: °C
             input_type: input
            name: lg_current_flow_rate
scale: 0.1
precision: 1
             scan interval: 30
             address: 8 slave: 1
             unit_of_measurement: 1/min
input_type: input
            name: lg_outdoor_air_temp
scale: 0.1
precision: 1
             scan interval: 30
            address: 12
slave: 1
unit_of_measurement: °C
input_type: input
            name: lg_Pipe_in_temp
scale: 0.1
             precision: 1
             scan_interval: 60
            address: 16
slave: 1
unit_of_measurement: °C
input_type: input
            name: lg_Fan_speed
scale: 1
             precision: 0
             scan_interval: 60
             address: 19
             slave: 1
unit_of_measurement: rpm
input_type: input
            name: lg_high_press
             scale: 1 precision: 0
             scan_interval: 60
address: 22
             slave: 1
             unit_of_measurement: mBar
             input_type: input
```

```
name: lg_low_press
scale: 1
      precision: 0
      scan_interval: 60
      address: 23
slave: 1
unit_of_measurement: mBar
      input_type: input
   - name: lg_inverter
      scale: 1
      precision: 0
      scan_interval: 30
address: 24
slave: 1
unit_of_measurement: Hz
      input type: input
      ##holding
     name: lg_operation_mode
scan_interval: 30
      address: 0 slave: 1
      input_type: holding
    - name: lg_control_method
      scan_interval: 30
address: 1
slave: 1
      input_type: holding
     name: lg_target_temp_circuit1
scale: 0.1
      precision: 1
      scan_interval: 30
      address: 2
      slave: 1
unit_of_measurement: °C
input_type: holding
   - name: lg_room_air_temp_circuit1_holding
  scale: 0.1
      precision: 1
      scan_interval: 30
      address: 3
      slave: 1
unit_of_measurement: °C
      input_type: holding
   - name: lg_shift_value_in_auto_mode_circuit1
    scan_interval: 30
    address: 4
    slave: 1
      input_type: holding
      name: lg_shift_value_in_auto_mode_circuit2
      scan_interval: 30
address: 7
slave: 1
      input_type: holding
     name: lg_dhw_target_temp
scale: 0.1
precision: 1
      precision: 1 scan_interval: 30 address: 8 slave: 1 unit_of_measurement: °C input_type: holding
binary_sensors:
    ## discrete
- name: lg_water_flow_status
    scan_interval: 30
    address: 0
    slave: 1
      input_type: discrete_input
   - name: lg_water_pump_status scan_interval: 30
      address: 1 slave: 1
      input_type: discrete_input
    - name: lg_compressor_status
      scan_interval: 30
address: 3
      slave: 1
      input_type: discrete_input
   - name: lg_defrosting_status
scan_interval: 30
address: 4
slave: 1
      input_type: discrete input
    - name: lg_dhw_heating_status
      scan_interval: 30
address: 5
      slave: 1
      input_type: discrete_input
     name: lg_silent_mode_status
scan_interval: 30
address: 7
slave: 1
      input_type: discrete_input
    - name: lg_error_status
scan_interval: 30
address: 13
      slave: 1
```

```
input_type: discrete_input
      switches:
          ##coil
- name: lg_enable_disable_heating/cooling
...
             address: 0
slave: 1
write_type: coil
             verify:
          - name: lg_enable_disable_dhw
address: 1
slave: 1
write_type: coil
verify:
          - name: lg_silent_mode_set
address: 2
slave: 1
             write_type: coil
verify:
          - name: lg_trigger_desinfection_operation
  address: 3
  slave: 1
             write_type: coil
verify:
          - name: lg_emergency_stop
address: 4
slave: 1
write_type: coil
             verify:
          - name: lg_trigger_emergency_operation address: 5
             slave: 1
write_type: coil
verify:
input_number:
  box_lg3:
name: Numeric Input Box_lg3
      initial: 21
      min: 15
max: 35
      step: 0.1 mode: box
  box_lg4:
  name: Numeric Input Box_lg4
  initial: 21
      min: 15
max: 25
  step: 0.1
mode: box
box_lg5:
      name: Numeric Input Box_1g5
      initial: 0
      min: -5
max: 5
      step: 1
mode: box
  box_lg9:
  name: Numeric Input Box_lg9
  initial: 50
      min: 40
max: 58
      step: 0.1 mode: box
  box_tb_min:
   name: Numeric Input Box_tb_min
      initial: -20
min: -30
max: 0
      step: 0.1
mode: box
  box_tb_max:
    name: Numeric Input Box_tb_max
      initial: 8
      min: 0
max: 30
      step: 0.1
mode: box
  box_target_min:
   name: Numeric Input Box_target_min
      initial: 27
      min: 20
max: 50
      step: 0.1
mode: box
  box_target_max:
name: Numeric Input Box_target_max
initial: 31
      min: 20
max: 50
      step: 0.1 mode: box
  ensor:
    platform: filter
    name: "filtered_buiten_temperature"
    entity_id: sensor.shellyplusht_buiten_temperature
    filters:
        - filter: outlier
          window_size: 4 radius: 4.0 - filter: lowpass
             time_constant: 10 precision: 2
   - platform: filter
name: "filtered_buiten_temperature2"
entity id: sensor.shelly1pm wp_temperature 3
```

```
filters:
         - filter: outlier
           window_size: 2
           radius: 1.0
         - filter: lowpass
           time constant: 10
         - filter: time_simple_moving_average
window_size: "00:02"
           precision: 2
      platform: filter
name: "filtered kamer temperature"
      entity_id: sensor.shelly1pm_kamer_temperature_3
      filters:
         - filter: outlier
         window_size: 2
radius: 1.0
- filter: lowpass
           time constant: 300
         - filter: time_simple_moving_average window_size: "00:30"
   window_size: "00:30"
precision: 2
- platform: filter
name: "filtered_wp_kwth_neg"
      entity_id: sensor.wp_kwth
      filters:
         - filter: range
lower_bound: -20.0
   upper_bound: 0.0
- platform: filter
name: "filtered_wp_kwth"
      entity_id: sensor.wp_kwth
      filters:
         - filter: range
lower_bound: 0.0
upper_bound: 20.0
   - platform: integration
      source: sensor.wp_kwth_neg
name: wp_neg_thermal_energy
round: 2
     platform: integration
      source: sensor.wp_kwth_pos
name: wp_pos_thermal_energy
      round: 2
template:
     sensor:
         - name: temp_stooklijn
unique_id: id_temp_stooklijn
state: >
                te: >
{% if states('sensor.filtered_buiten_temperature2') | float < states('input_number.box_tb_min') | float %}
{% set lghp_stooklijn = states('input_number.box_target_max') | float %}
{% elif states('sensor.filtered_buiten_temperature2') | float > states('input_number.box_tb_max') | float %}
{% set lghp_stooklijn = states('input_number.box_target_min') | float %}

(% cloc %)
{{    lghp_stooklijn | float | round(2) }};
c of measurement: °C
           unit_of_measurement:
   - sensor:
         nnsor:
- name: temp_wp_aanvoer
  unique_id: id_temp_wp_aanvoer
  state: "{{ (states('sensor.shellylpm_wp_temperature') | float ) | round(2) }}"
  unit_of_measurement: °C
         nsor:
- name: temp_wp_retour
unique_id: id_temp_wp_retour
state: "{{ (states('sensor.shellylpm_wp_temperature_2') | float ) | round(2) }}"
   - sensor:
           name: wp_kwth
           unique_id: id_wp_kwth
state: >
                {% set lghp thermal power = ((states('sensor.temp wp aanvoer') | float - states('sensor.temp wp retour') | float) * 1.176 *
1.16277 ) | float %}
                 {% endif %}
           {{ lghp_thermal_power | float | round(2) }} unit_of_measurement: kW
         - name: wp kwth pos
           unique_id: id_wp_kwth_pos
state: "{{ (states('sensor.filtered_wp_kwth') | float * 1.0) | round(2) }}"
           unit_of_measurement: kW
   - sensor:
           name: wp_kwth_neg
unique_id: id_wp_kwth_neg
state: "{{ (states('sensor.filtered_wp_kwth_neg') | float * -1.0) | round(2) }}"
unit_of_measurement: kW
         - name: wp cop
           name. wp_cop
unique_id: id_wp_cop
state: "{{ ((states('sensor.wp_kwth') | float) * 1000 / (states('sensor.kwh_meter_wp_lg_active_power') | float)) | round(2) }}"
           unit_of_measurement: kWth/kWe
```

```
id: lg_holding3
alias: Target water temperatuur
description: Instellen gewenste water temperatuur
 trigger:
 - platform: state
entity_id:
    input_number.box_lg3
condition: []
action:
 - service: modbus.write register
   data:
address: 2
      address. L
slave: 1
hub: lg_modbus
value: '{{ (states.input_number.box_lg3.state) | float * 10 }}'
mode: single
id: lg_holding4
alias: Target kamer temperatuur
description: Instellen gewenste kamer temperatuur
trigger:
- platform: state
entity_id:
    - input_number.box_lg4
condition: []
action:
- service: modbus.write_register
   data:
      address: 3
      address. ;
slave: 1
hub: lg_modbus
value: '{{ (states.input_number.box_lg4.state) | float * 10 }}'
warde: {{ (states.Imput_number.box_ig4.state) | 110 mode: single id: lg holding5 alias: Target shift temperatuur description: Instellen gewenste verschuiving temperatuur
trigger:
 - platform: state
entity_id:
    input_number.box_lg5
condition: []
action:
- service: modbus.write_register
   data:
      address: 4
      slave: 1
      mode: single
id: lg_holding9
alias: Target DHW temperatuur
description: Instellen gewenste tapwater temperatuur
trigger:
 - platform: state
entity_id:
    - input_number.box_lg9
condition: []
action:
- service: modbus.write_register
      address: 8
     address. Slave: 1
hub: lg_modbus
value: '{{ (states.input_number.box_lg9.state) | float * 10 }}'
...
value: '
id: lg_holding3_update
alias: Update LG Target water temperatuur
description: Update LG Target water temperatuur
trigger:
- platform: state
   entity_id:
    - sensor.lg_target_temp_circuit1
condition: []
- service: input number.set value
      value: '{{ (states.sensor.lg_target_temp_circuit1.state) }}'
   target:
  entity_id: input_number.box_lg3
mode: single
id: lg_holding4_update
alias: Update LG Target kamer temperatuur
description: Update LG Target kamer temperatuur trigger:
 - platform: state
   entity_id:
    - sensor.lg_room_air_temp_circuit1_holding
condition: []
action:
 - service: input_number.set_value
      value: '{{ (states.sensor.lg_room_air_temp_circuit1_holding.state) }}'
   target:
     entity_id: input_number.box_lg4
entity_id: input_number.box_1g4
mode: single
id: lg_holding5_update
alias: Update LG Target shift temperatuur
description: Update LG Target shift temperatuur
triager:
 - platform: state
entity_id:
    - sensor.lg_shift_value_in_auto_mode_circuit1
condition: []
action:
   service: input_number.set_value
```

```
data:
         value: '{{ (states.sensor.lg_shift_value_in_auto_mode_circuit1.state) }}'
      target:
        entity_id: input_number.box_lg5
 mode: single
id: lg_holding9_update
alias: Update LG Target DHW temperatuur
description: Update LG Target DHW temperatuur
  trigger:
     platform: state
     entity_id:
    sensor.lg_dhw_target_temp
  condition: []
   action:
   - service: input_number.set_value
     data:
         value: '{{ (states.sensor.lg_dhw_target_temp.state) }}'
      target:
         entity_id: input_number.box_lg9
  mode: single
- id: '1676731122476'
  adias: 'Warmtepomp: Stille modus aan/uit' description: 'Warmtepomp: Stille modus aan/uit omschakeling'
  trigger:
   - platform: state
      entity_id:
      - binary_sensor.lg_defrosting_status
      for:
        hours: 0
         minutes: 0
         seconds: 0
     seconds: U
from: 'off'
to: 'on'
id: 'Trigger_ID01: Defrost gestart'
platform: state
      entity id:
     entity_ld:
    - switch.lg_silent_mode_set
from: unavailable
to: 'off'
id: 'Trigger_ID02: Silent mode switch komt weer beschikbaar'
   - platform: numeric state
  entity_id: sensor.filtered_buiten_temperature2
     above: 5
id: 'Trigger_ID03: Voortschrijdend gemiddelde Temperatuur buiten boven 5 graden'
      entity_id: sensor.shelly1pm_wp_temperature_3
     above: 6
id: 'Trigger_ID04: Temperatuur buiten boven 6 graden'
platform: state
entity_id:
      - binary_sensor.lg_compressor_status from: 'off'
     from: 'off'
to: 'on'
id: 'Trigger_ID05: Compressor gaat weer aan'
     platform: numeric_state
entity_id: sensor.filtered_buiten_temperature2
id: 'Trigger_ID06: Voortschrijdend gemiddelde Temperatuur buiten onder 2.5 graden'
   below: 2.5
- platform: time
      at: '13:00:00'
id: 'Trigger_ID07: om 13 uur '
     platform: numeric_state
entity_id: sensor.filtered_buiten_temperature2
id: 'Trigger_ID08: Voortschrijdend gemiddelde Temperatuur buiten onder 3.4 graden'
  below: 3.4

- platform: numeric_state
entity_id: sensor.shellyplusht_buiten_humidity
id: 'Trigger_ID09: Vochtigheid boven 90%'
      above: 90
  condition: []
action:
  - if:
     - condition: trigger
id: 'Trigger_ID01: Defrost gestart'
      - service: switch.turn on
        data: {}
target:
            entity_id: switch.lg_silent_mode_set
      - delay:
            hours: 0
            minutes: 17
            seconds: 0
      milliseconds: 0
- service: switch.turn_off
        data: {}
target:
           entity_id: switch.lg_silent_mode_set
      - condition: trigger
     - condition: trigger
id: 'Trigger_ID02: Silent mode switch komt weer beschikbaar'
- condition: state
  entity_id: binary_sensor.lg_silent_mode_status
  state: 'off'
- condition: numeric_state
  entity_id: sensor.filtered_buiten_temperature2
  above: 5
      then:
       - service: switch.turn_on
         data: {}
         target:
     entity_id: switch.lg_silent_mode_set
alias: 'Perform an action if: When triggered by Trigger_ID02: Silent mode switch
komt weer beschikbaar'
   - if:
     if:
    condition: trigger
    id: 'Trigger_ID03: Voortschrijdend gemiddelde Temperatuur buiten boven 5 graden'
    condition: state
    entity_id: binary_sensor.lg_silent_mode_status
    state: 'off'
        condition: numeric_state
         entity_id: sensor. filtered buiten temperature2
```

```
above:
   then:
   - service: switch.turn_on
     data: {}
  entity_id: switch.lg_silent_mode_set
alias: 'Perform an action if: When triggered by Trigger_ID03: Voortschrijdend
gemiddelde Temperatuur buiten boven 5 graden'
- if:
  - condition: trigger
id: 'Trigger_ID04: Temperatuur buiten boven 6 graden'
- condition: state
entity_id: binary_sensor.lg_silent_mode_status
state: 'off'
   - condition: numeric_state
entity_id: sensor.filtered_buiten_temperature2
above: 5
   then:
   - service: switch.turn_on
     data: {}
     target:
  entity_id: switch.lg_silent_mode_set
  alias: 'Perform an action if: When triggered by Trigger_ID04: Temperatuur buiten
boven 6 graden'
- if:
  - condition: trigger
id: 'Trigger_ID05: Compressor gaat weer aan'
  - condition: state
entity_id: binary_sensor.lg_silent_mode_status
state: 'off'
  - condition: numeric_state
entity_id: sensor.filtered_buiten_temperature2
above: 5
  then:
   - service: switch.turn_on
     data: {}
     target:
  entity_id: switch.lg_silent_mode_set
alias: 'Perform an action if: When triggered by Trigger_ID05: Compressor gaat
weer aan en temperatuur > 5'
  - condition: trigger id: 'Trigger_ID06: Voortschrijdend gemiddelde Temperatuur buiten onder 2.5 graden'
  condition: state
entity_id: binary_sensor.lg_silent_mode_status
state: 'on'
   - condition: numeric_state
  entity_id: sensor.filtered_buiten_temperature2
  below: 3
   - service: switch.turn off
     data: {}
target:
     entity_id: switch.lg_silent_mode_set
lias: 'Perform an action if: When triggered by Trigger_ID06: Voortschrijdend
gemiddelde Temperatuur buiten onder 2.5 graden'
   - condition: trigger
   id: 'Trigger_ID07: om 13 uur '
- condition: state
entity_id: binary_sensor.lg_silent_mode_status
        hours: 21
        minutes: 0
        seconds: 0
     state: 'on'
   then:
   - service: switch.turn_off
     data: {}
target:
  entity_id: switch.lg_silent_mode_set
- delay:
        hours: 2
        minutes: 5
        seconds: 0
        milliseconds: 0
   - service: switch.turn on
      data: {}
     target:
   entity_id: switch.lg_silent_mode_set alias: 'Perform an action if: When triggered by Trigger_ID07: om 13 uur '
- if:
  - condition: trigger
id: 'Trigger_ID08: Voortschrijdend gemiddelde Temperatuur buiten onder 3.4 graden'
  - condition: state
entity_id: binary_sensor.lg_silent_mode_status
state: 'on'
   state: 'on'
- condition: numeric_state
- entity_id: sensor.shellyplusht_buiten_humidity
- above: 96
  then:
   - service: switch.turn_off
     data: {}
     target:
        entity_id: switch.lg_silent_mode_set
as: 'Perform an action if: When triggered by Trigger ID08: Voortschrijdend
gemiddelde Temperatuur buiten onder 3.4 graden'- if:
  alias:
   - condition: trigger
     id: 'Trigger_ID09: Vochtigheid boven 90%'
  condition: state
entity_id: binary_sensor.lg_silent_mode_status
state: 'on'
  - condition: numeric_state
entity_id: sensor.filtered_buiten_temperature2
below: 3.4
   then:
   - service: switch.turn off
     target:
  entity_id: switch.lg_silent_mode_set alias: 'Perform an action if: When triggered by Trigger_ID09: Vochtigheid boven
      90%
```

```
- condition: trigger
id: 'Trigger_ID05: Compressor gaat weer aan'
   condition: state
entity_id: binary_sensor.lg_silent_mode_status
state: 'off'
   condition: numeric_state
entity_id: sensor.filtered_buiten_temperature2
below: 5
    - service: switch.turn on
       target:
    entity_id: switch.lg_silent_mode_set
- delay:
          hours: 0
          minutes: 17
          seconds: 0
          milliseconds: 0
    - service: switch.turn off
      data: {}
target:
   entity_id: switch.lg_silent_mode_set
alias: 'Perform an action if: When triggered by Trigger_ID05: Compressor gaat
weer aan en temperatuur < 5'
mode: single id: '1676797926588'
alias: 'Warmtepomp: Gewenste temperatuur en aan/uit instellen' description: Warmtepomp Gewenste temperatuur en aan/uit instellen
trigger:
 - platform: time
at: 06:00:00
id: 'Trigger_ID01: 6 uur ''s morgens'
 - 10: 11293-- -
- platform: time
- at: 08:00:00
- id: 'Trigger_ID02: 8 uur ''s morgens'
   at: '10:00:00'
id: 'Trigger_ID03: 10 uur ''s morgens'
platform: time
   platform: time
at: '22:00:00'
id: 'Trigger_ID04: 10 uur ''s avonds'
platform: time
  id: 'III990-
platform: time
at: 00:00:00
id: 'Trigger_ID05: 12 uur ''s nachts'
   at: 02:00:00
id: 'Trigger_ID06: 2 uur ''s nachts'
- platform: time
at: '10:30:00'
id: 'Trigger_ID07: 10:30 uur ''s morgens'
   platform: time
at: '20:00:00'
id: 'Trigger_ID08: 8 uur ''s avonds'
condition: []
action:
   - condition: trigger
   - condition: trigger id: 'Trigger_ID01: 6 uur ''s morgens'
- condition: numeric_state entity_id: sensor.filtered_buiten_temperature2 below: 8
   condition: numeric_state
entity_id: sensor.lg_target_temp_circuit1
below: 21
   - condition: numeric_state
entity_id: sensor.shelly1pm_kamer_temperature_3
below: 21.5
   then:
    - service: input_number.set_value
      data:
value: 21
   target:
    entity_id: input_number.box_lg3
alias: 'Perform an action if: When triggered by Trigger_ID01: 6 uur ''s morgens'
   - condition: trigger
   id: 'Trigger_ID02: 8 uur ''s morgens'
- condition: numeric_state
   - condition: numeric_state
entity_id: sensor.filtered_buiten_temperature2
below: 8
- condition: numeric_state
entity_id: sensor.lg_target_temp_circuit1
below: 21
   - condition: numeric_state
entity_id: sensor.shelly1pm_kamer_temperature_3
below: 21.5
    - service: input_number.set_value
       data:
value: 21
   target:
    entity_id: input_number.box_lg3
alias: 'Perform an action if: When triggered by Trigger_ID02: 8 uur ''s morgens'
    - condition: trigger
      id: 'Trigger_ID03: 10 uur ''s morgens' condition: numeric_state entity_id: sensor.lg_target_temp_circuit1 below: 21
   then:
     - service: input_number.set_value
      data:
          value: 21
       target:
   entity_id: input_number.box_lg3
alias: 'Perform an action if: When triggered by Trigger_ID03: 10 uur ''s morgens'
- if:
   - condition: trigger
id: 'Trigger_ID04: 10 uur ''s avonds'
- condition: numeric_state
entity_id: sensor.filtered_buiten_temperature2
       above:
```

```
condition: numeric state
      entity_id: sensor.lg_target_temp_circuit1
above: 20
   - condition: numeric_state
  entity_id: sensor.shelly1pm_kamer_temperature_3
  above: 22
   then:
    service: input_number.set_value
     data:
         value: 20
      target:
   entity_id: input_number.box_lg3 alias: 'Perform an action if: When triggered by Trigger_ID04: 10 uur ''s avonds'
- if:
   11:
- condition: trigger
id: 'Trigger_ID05: 12 uur ''s nachts'
- condition: numeric_state
entity_id: sensor.filtered_buiten_temperature2
above: 6
   above. o condition: numeric_state entity_id: sensor.lg_target_temp_circuit1 above: 20
   - condition: numeric_state
entity_id: sensor.shelly1pm_kamer_temperature_3
above: 22.5
   then:
   - service: input_number.set_value
     data:
         value: 20
      target:
   entity_id: input_number.box lg3 alias: 'Perform an action if: When triggered by Trigger_ID05: 12 uur ''s nachts'
- if:
  - condition: trigger
id: 'Trigger_ID06: 2 uur ''s nachts'
- condition: numeric_state
entity_id: sensor.filtered_buiten_temperature2
above: 8
- condition: numeric_state
entity_id: sensor.kwh_meter_wp_lg_active_power
above: 200
- condition: numeric_state
   - condition: trigger
   - condition: numeric_state
  entity_id: sensor.shelly1pm_kamer_temperature_3
  above: 22
   - service: input_number.set_value
     data:
         value: 20
     target:
   entity_id: input_number.box_lg3
- service: switch.turn off
      data: {}
      target:
        entity_id: switch.lg_enable_disable_heating_cooling
   - delay:
        hours: 0
         seconds: 0
        milliseconds: 0
    - service: switch.turn on
      data: {}
   entity_id: switch.lg_enable_disable_heating_cooling
alias: 'Perform an action if: When triggered by Trigger_ID06: 2 uur ''s nachts'
- if:
   - condition: trigger
id: 'Trigger_ID07: 10:30 uur ''s morgens'
   condition: numeric_state
entity_id: sensor.kwh_meter_wp_lg_active_power
below: 200
   - condition: numeric_state
entity_id: sensor.filtered_buiten_temperature2
below: 10
   then:
   - service: input_number.set_value
         value: 22
     target:
  entity_id: input_number.box_lg3
   - delay:
hours: 0
        minutes: 15
        seconds: 0
milliseconds: 0
   - service: input_number.set_value data:
        value: 21
      target:
   entity_id: input_number.box_1g3
alias: 'Perform an action if: When triggered by Trigger_ID07: 10:30 uur ''s morgens'
- if:
  - condition: trigger
id: 'Trigger_ID08: 8 uur ''s avonds'
- condition: numeric_state
      entity_id: sensor.filtered_buiten_temperature2 above: 10
   - condition: numeric_state
entity_id: sensor.lg_target_temp_circuit1
above: 20
   - condition: numeric_state
     entity_id: sensor.shelly1pm_kamer_temperature_3
above: 22
   then:
   - service: input_number.set_value
     data:
        value: 20
      target:
        entity_id: input_number.box_lg3
   alias: 'Perform an action if: When triggered by Trigger_ID08: 8 uur ''s avonds'
mode: single
id: '1679084935339'
alias: Update na herstart
description: Update LG
```