

Gaszähler

Aufbau

Kalibrieren

OLD

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```
substitutions:
  devicename: "iot-kl-wl-sc-gaszaehler"

esphome:
  name: iot-kl-wl-sc-gaszaehler
  friendly_name: IOT_KL_WL_SC_GasZaehler

rp2040:
  board: rpipicow

preferences:
  flash_write_interval: 5min # set to 5min to prevent wearing out the
  onboard flash module too quickly

# Enable logging
logger:
  baud_rate: 115200
  level: DEBUG

status_led:
  pin: 32

# Enable Home Assistant API
api:
  encryption:
    key: !secret api_encryption_key

ota:
  - platform: esphome
    password: !secret ota_password

wifi:
  ssid: !secret wifi_ssid
  password: !secret wifi_password
  ap:
    ssid: "Schaltschrank Fallback Hotspot"
    password: "schmidt01"
```

```
#manual_ip:
#  static_ip: 192.168.30.133
#  gateway: 192.168.30.1
#  subnet: 255.255.255.0
globals:
#counter für die impulse des Gaszählers
- id: total_pulses
  type: int
  restore_value: false
  initial_value: '0'

# vom Gaszaehler der Faktor pro Impuls; bei mir 1 imp = 0,01m³ Also
# wieviel m³ pro Impuls berechnet werden soll
- id: impuls_ratio
  type: float
  restore_value: false
  initial_value: '0.01'

binary_sensor:
# Sensor zählt, ob der Reed Kontakt ein Klick erkannt hat.
- platform: gpio
  id: internal_pulse_counter
  pin:
    number: GPIO21
    mode: INPUT
  name: "Gaszaehler_Impuls"
  filters:
    - delayed_on: 100ms # Verringerte Verzögerung
    - delayed_off: 100ms # Zusätzliche Ausschaltverzögerung
  on_press:
    then:
      - lambda: id(total_pulses) += 1; # hier zählt er, wenn der
Magnet erkannt wird.
  on_release:
    then:
      - lambda: id(total_pulses) += 1; # hier zählt er, wenn er kein
Magnet mehr erkennt.
# schaut, ob der ESP32 online ist
- platform: status
  name: "Gaszaehler Status"

sensor:
- platform: uptime
  name: "RP2040 Uptime"
  unit_of_measurement: "s"
  icon: mdi:timer-outline
- platform: internal_temperature
  name: "RP2040 CPU Temperatur"
  unit_of_measurement: "°C"
```

```
device_class: temperature
state_class: measurement
icon: mdi:chip
# zählt alle Impulse hoch und rechnet diese um in m³
- platform: template
  name: "Gasverbrauch-m3"
  device_class: gas
  unit_of_measurement: "m³"
  state_class: "total_increasing"
  icon: "mdi:fire"
  accuracy_decimals: 2
  lambda: |-
    return id(total_pulses) * id(impuls_ratio);
#     ESP_LOGD("Gaszähler m³ TAG", "Pulse bisher: %d",
id(total_pulses));
# zählt alle Impulse hoch, umrechnung in kWh (mal 10)
- platform: template
  name: "Gasverbrauch-kWh"
  device_class: gas
  unit_of_measurement: "kWh"
  state_class: "total_increasing"
  icon: "mdi:fire"
  accuracy_decimals: 2
  lambda: |-
    return id(total_pulses) * id(impuls_ratio) * 10;
#     ESP_LOGD("Gaszähler kWh TAG", "Pulse bisher: %d",
id(total_pulses));
```

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