

Neuinstallation ioBroker auf einem R-Pi 3 B+

Quellen:

- [Raspberry Pi OS und ggf. Image Writer](#)
- [Raspi-Config Kommandozeilen Optionen](#)
- [ioBroker](#)
- [InfluxDB Installation](#)
- [InfluxDB 1.x Installation](#)
- [Grafana Installation](#)
- [Grafana ohne Login](#)
- [Verbindung InfluxDB 2.0 <-> Grafana](#)
- [Jeelink Klon](#)
- [LaCrosse Temperatur- & Feuchtesensor TX29DTH-IT, 868 MHz](#)
- [FHEM Wiki zu JeeLink/Lacrosse Klon im Eigenbau](#)
- [Arduino Sketch für JeeLink Empfänger](#)
- [Verdrahtung Arduino Nano und 868 MHz RF-Modul](#)

Das Grundsystems

Installation

Die Verwendung von InfluxDB 2.x setzt ein 64-bit Betriebssystem voraus.

Ein Desktop bzw. eine vollständige grafische Oberfläche wird nicht benötigt. Daher bezeichnet man ein solches System als „Headless“. Somit basiert dieses Heimautomatisierungsprojekt auf einem Raspberry Pi OS (32 oder 64-bit) Lite.

```
# Raspberry Pi Image besorgen
#wget
https://downloads.raspberrypi.org/raspios_lite_armhf/images/raspios_lite_armhf-2023-02-22/2023-02-21-raspios-bullseye-armhf-lite.img.xz
wget
https://downloads.raspberrypi.com/raspios_lite_armhf/images/raspios_lite_armhf-2023-10-10/2023-10-10-raspios-bookworm-armhf-lite.img.xz
oder
#wget
https://downloads.raspberrypi.org/raspios_lite_arm64/images/raspios_lite_arm64-2023-02-22/2023-02-21-raspios-bullseye-arm64-lite.img.xz
wget
https://downloads.raspberrypi.com/raspios_lite_arm64/images/raspios_lite_arm64-2023-10-10/2023-10-10-raspios-bookworm-arm64-lite.img.xz
# R-Pi Imager herunterladen und intallieren:
wget https://downloads.raspberrypi.org/imager/imager_latest_amd64.deb
sudo dpkg -i imager_latest_amd64.deb
rpi-imager
#sudo touch /media/<benutzername>/bootfs/ssh
```

```
#sync
# SD-Karte aushängen und damit den R-Pi booten
```

Konfiguration

Während des Bootvorganges erhält der Raspberry eine IP Adresse vom Router. Diese kann über die entsprechende Weboberfläche des Routers ermittelt werden.

```
# Grundsystem auf den aktuellen Stand bringen:
ssh -l pi <IP>
sudo su
apt-get update && sudo apt-get upgrade
apt-get install aptitude mc apt-transport-https software-properties-common
raspi-config nonint do_hostname iobroker
raspi-config nonint do_owire 0
raspi-config nonint do_change_locale de_DE.UTF-8 UTF-8
raspi-config nonint do_expand_rootfs
raspi-config nonint do_update
reboot
# Feste IP für eth0 einstellen:
mcedit /etc/dhcpd.conf
interface eth0
static ip_address=192.168.10.11/24
static routers=192.168.10.1
static domain_name_servers=192.168.10.1
# nicht benötigte Dienste beenden und/oder entfernen:
systemctl disable ModemManager.service
systemctl stop ModemManager.service
apt-get purge modemmanager
```

InfluxDB 1.x

Quelle: <https://docs.influxdata.com/influxdb/v1/introduction/install/>

Installation

```
sudo su
#wget -q0- https://repos.influxdata.com/influxdata-archive_compat.key | sudo
apt-key add -
#source /etc/lsb-release
#echo "deb https://repos.influxdata.com/${DISTRIB_ID,,} ${DISTRIB_CODENAME}
stable" | sudo tee /etc/apt/sources.list.d/influxdb.list
#curl https://repos.influxdata.com/influxdata-archive.key | gpg --dearmor |
sudo tee /usr/share/keyrings/influxdb-archive-keyring.gpg >/dev/null
#echo "deb [signed-by=/usr/share/keyrings/influxdb-archive-keyring.gpg]
```

```
https://repos.influxdata.com/debian $(lsb_release -cs) stable" | sudo tee
/etc/apt/sources.list.d/influxdb.list
wget -q https://repos.influxdata.com/influxdata-archive_compat.key
echo '393e8779c89ac8d958f81f942f9ad7fb82a25e133faddaf92e15b16e6ac9ce4c
influxdata-archive_compat.key' | sha256sum -c && cat influxdata-
archive_compat.key | gpg --dearmor | sudo tee
/etc/apt/trusted.gpg.d/influxdata-archive_compat.gpg > /dev/null
echo 'deb [signed-by=/etc/apt/trusted.gpg.d/influxdata-archive_compat.gpg]
https://repos.influxdata.com/debian stable main' | sudo tee
/etc/apt/sources.list.d/influxdata.list
```

apt-get update

apt-get install influxdb

systemctl unmask influxdb.service

systemctl **enable** influxdb

systemctl start influxdb

systemctl status influxdb

Konfiguration

sudo su

influx

> CREATE USER "admin" WITH PASSWORD 'influxdbadmin' WITH ALL PRIVILEGES

> CREATE USER "iobroker" WITH PASSWORD 'iobroker'

> CREATE DATABASE "iobroker"

> GRANT ALL ON "iobroker" TO "iobroker"

> exit

#

mcedit /etc/influxdb/influxdb.conf

[http]

enabled = **true**

bind-address = ":8086"

auth-enabled = **true**

log-enabled = **true**

write-tracing = **false**

pprof-enabled = **true**

https-enabled = **false**

#

systemctl restart influxdb

Datenbankgröße ermitteln

sudo su

du -sh /var/lib/influxdb/data/iobrokerdb/

Backups

Quelle:

https://docs.influxdata.com/influxdb/v1/administration/backup_and_restore/#back-up-all-databases

Erstellen

```
sudo su
influxd backup -portable /path/to/backup-destination
```

Wieder herstellen

```
sudo su
influxd restore -portable /path/to/backup-destination
```

InfluxDB 2.x

Installation

```
sudo su
cd ~
wget -q https://repos.influxdata.com/influxdata-archive_compat.key
echo '393e8779c89ac8d958f81f942f9ad7fb82a25e133faddaf92e15b16e6ac9ce4c
influxdata-archive_compat.key' | sha256sum -c && cat influxdata-
archive_compat.key | gpg --dearmor | sudo tee
/etc/apt/trusted.gpg.d/influxdata-archive_compat.gpg > /dev/null
echo 'deb [signed-by=/etc/apt/trusted.gpg.d/influxdata-archive_compat.gpg]
https://repos.influxdata.com/debian stable main' | sudo tee
/etc/apt/sources.list.d/influxdata.list
apt-get update
apt-get install influxdb2
systemctl start influxdb
systemctl status influxdb
```

Konfiguration

Die Konfiguration der InfluxDB erfolgt über den Browser via <http://RASPI-IP:8086>.

Grafana

Installation

```
sudo su
#wget -q -O /usr/share/keyrings/grafana.key https://apt.grafana.com/gpg.key
#echo "deb [signed-by=/usr/share/keyrings/grafana.key]
https://apt.grafana.com stable main" | sudo tee -a
/etc/apt/sources.list.d/grafana.list

wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -
echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee -a
/etc/apt/sources.list.d/grafana.list
apt-get update
# Install the latest OSS release:
apt-get install -y grafana
# Start System Service aka. Server
systemctl daemon-reload
systemctl start grafana-server
systemctl status grafana-server
systemctl enable grafana-server.service
```

Grafana Server: <http://IP:3000>

Grafana ohne Login

```
mcedit /etc/grafana/grafana.ini
# [auth.anonymous]
enabled = true
systemctl restart grafana-server
```

Backup

Quelle: <http://cactusprojects.com/backup-restore-grafana/>

Erstellen

```
sudo su
cp /var/lib/grafana/grafana.db /path/to/backup-destination
cp /etc/grafana/grafana.ini /path/to/backup-destination
```

Wieder herstellen

```
sudo su
cd /path/to/backup-destination
cp grafana.db /var/lib/grafana/
```

```
cp grafana.ini /etc/grafana/
```

ioBroker

Installation

```
sudo su
# automatische Installation:
curl -sLf https://iobroker.net/install.sh | bash -
```

Nach der Installation ist die ioBroker Instanz erreichbar unter <http://<Raspberry-Pi-IP>:8081>.

Steuerung

```
# ioBroker starten:
iobroker start
# ioBroker stoppen:
iobroker stop
# ioBrker Infos anzeigen
iobroker info
```

Adapter installieren

Als Adapter werden alle Schnittstellen zu externen aber auch zu internen Datenquellen (z.B. Shelly Sensoren, Temperatur, Luftfeuchte, GPIO, 1-Wire, etc.) und Senken (Shelly Aktoren) bezeichnet.

- influxDB (Datenbank zur Speicherung von Messwerten)
- DS18B20 (Auslesen von 1-Wire Temperatursensoren)
- HABpanel (Steuerung von Aktoren vis Webseite)
- Jeelink-Geräte (Empfangen von 868mHz LaCrosse Temperatur- und Feuchtesensoren (hier z.B. TX29DTH-IT) mit Hilfe eines Jeelink Klones
- MQTT Broker (zur Datenverarbeitung von MQTT-fähigen Sensoren und Aktoren)
- Philips Luftreiniger (für die Anbindung eines Philips Air Purifier 4000i Series (Typ: AC4236/10)
- RPI-Monitor (Nutzung von GPIOs z.B. zum Einlesen eines Reed-Kontaktes für den Gaszähler)
- Skriptausführung (Javascript und Blockly)
- WEB-Server (für HABpanel)

admin

Admin

Installierte Instanzen: 1

Verfügbare Version: 6.3.5

Installierte Version: 6.3.5

backupup

BackItUp

Installierte Instanzen: 1

Verfügbare Version: 2.5.12

Installierte Version: 2.5.12

influxdb

Daten mit InfluxDB protokollieren

Installierte Instanzen: 1

Verfügbare Version: 3.2.0

Installierte Version: 3.2.0

ds18b20

DS18B20

Installierte Instanzen: 1

Verfügbare Version: 1.6.1

Installierte Version: 1.6.1

simple-api

Einfache RESTful API

Verfügbare Version: 2.7.2

Installierte Version: 2.7.2

discovery

Gerätesuche

Installierte Instanzen: 1

Verfügbare Version: 3.1.0

Installierte Version: 3.1.0

habpanel

HABpanel

Installierte Instanzen: 1

Verfügbare Version: 0.5.0

Installierte Version: 0.5.0

jeelink

Jeelink-Geräte

Installierte Instanzen: 1

Verfügbare Version: 0.1.4

Installierte Version: 0.1.4

mqtt

MQTT Broker/Client

Installierte Instanzen: 1

Verfügbare Version: 4.0.7

Installierte Version: 4.0.7

philips-air

Philips Luftreiniger

Installierte Instanzen: 1

Verfügbare Version: 1.0.1

Installierte Version: 1.0.1

rpi2

RPI-Monitor

Installierte Instanzen: 1

Verfügbare Version: 1.3.2

Installierte Version: 1.3.2

javascript

Skriptausführung

Installierte Instanzen: 1

Verfügbare Version: 6.1.4

Installierte Version: 6.1.4

socketio

socket.io

Verfügbare Version: 4.2.0

Installierte Version: 4.2.0

ws

Web socket

Verfügbare Version: 1.3.0

Installierte Version: 1.3.0

web

WEB-Server

Installierte Instanzen: 1

Verfügbare Version: 4.3.0

Installierte Version: 4.3.0

Adapter konfigurieren

Die oben aufgeführten Adapter sind nach der Installation unter Instanzen zu finden und müssen dort konfiguriert werden.

1-Wire

DS18B20

Instanzeinstellungen: ds18b20.0

v2.0.4

Info

ALLGEMEINE EINSTELLUNGEN

SENSOREN

REMOTE-SYSTEME

Sensoren

+ Adresse	Remote-System-ID	Name	Abfrageintervall	Einheit	Faktor	Offset	Dezimalstellen	Null bei Fehler	Aktiviert	
10-00080359c712	keins	Vorlauftemperatur	Standard	°C	1	0	2	☒	☒	↓
10-00080359e7fe	keins	Rücklauftemperatur	Standard	°C	1	0	2	☒	☒	↑

JeeLink

TBC - Empfänger bauen und programmieren → TBC

Jeelink Settings

/dev/ttyUSB0

57600

Serial port

Baud rate

/dev/ttyUSB0 or /dev/ttyACME0

usually 57600

Jeelink Command (trial)

☐ Befehl aktivieren

usually empty

Befehl für Stick-Setup

usually empty

Sensorkonfiguration

gültige Sensortypen:

emonTH, emonWater, LaCrosseDTH, LaCrosseDTT, LaCrosseBMP180, HMS100T, LaCrosseWS, EC3000, EMT7110, level

+

GET FROM ADAPTER

	id	type	uid	Name	Löschen
1	22	LaCrosseDTH	▼ Badezimmer	THS_#03	
2	43	LaCrosseDTH	▼ Küche	THS_#05	
3	21	LaCrosseDTH	▼ Wohnzimmer	THS_#06	
4	11	LaCrosseDTH	▼ Wintergarten	THS_#08	
5	14	LaCrosseDTH	▼ Schlafzimmer	THS_#04	
6	37	LaCrosseDTH	▼ Jonas	THS_#02	
7	40	LaCrosseDTH	▼ IT-Schrank	THS_#09	
8	9	LaCrosseDTH	▼ Lager	THS_#07	
9	8	LaCrosseDTH	▼ Außensensor	THS_#00	

MQTT

Für IKEA Sensoren -> Die angepasste Firmware gibt es [hier](#).

Instanzeinstellungen: mqtt.0

v4.1.1

WARN

VERBINDUNG

MQTT EINSTELLUNGEN

IP

Server/Broker

☐ WebSockets benutzen

Verbindungseinstellungen

IP Adresse

Port

[IPv4] 192.168.10.11 - eth0

1883

☐ SSL

Authentifizierungseinstellungen

Benutzer

Passwort

Passwort (wiederholen)

mqttuser

Philips

**Instanzeinstellungen: philips-air.0** v1.0.3   warn 

Geräte-IP
192.168.10.125

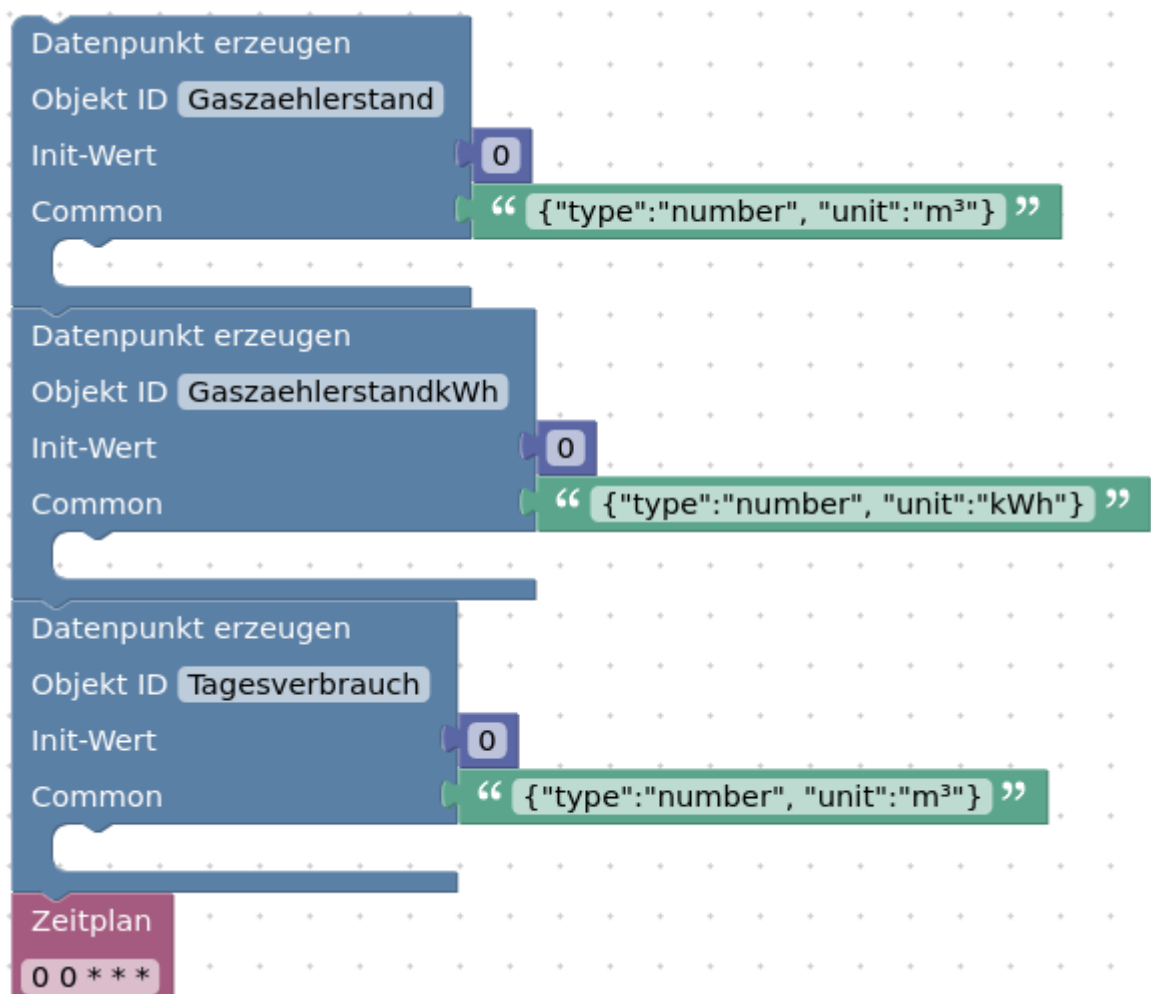
Lebenszeitüberschreitung	Wiederverbindungsintervall
30000 	30000 
ms	ms

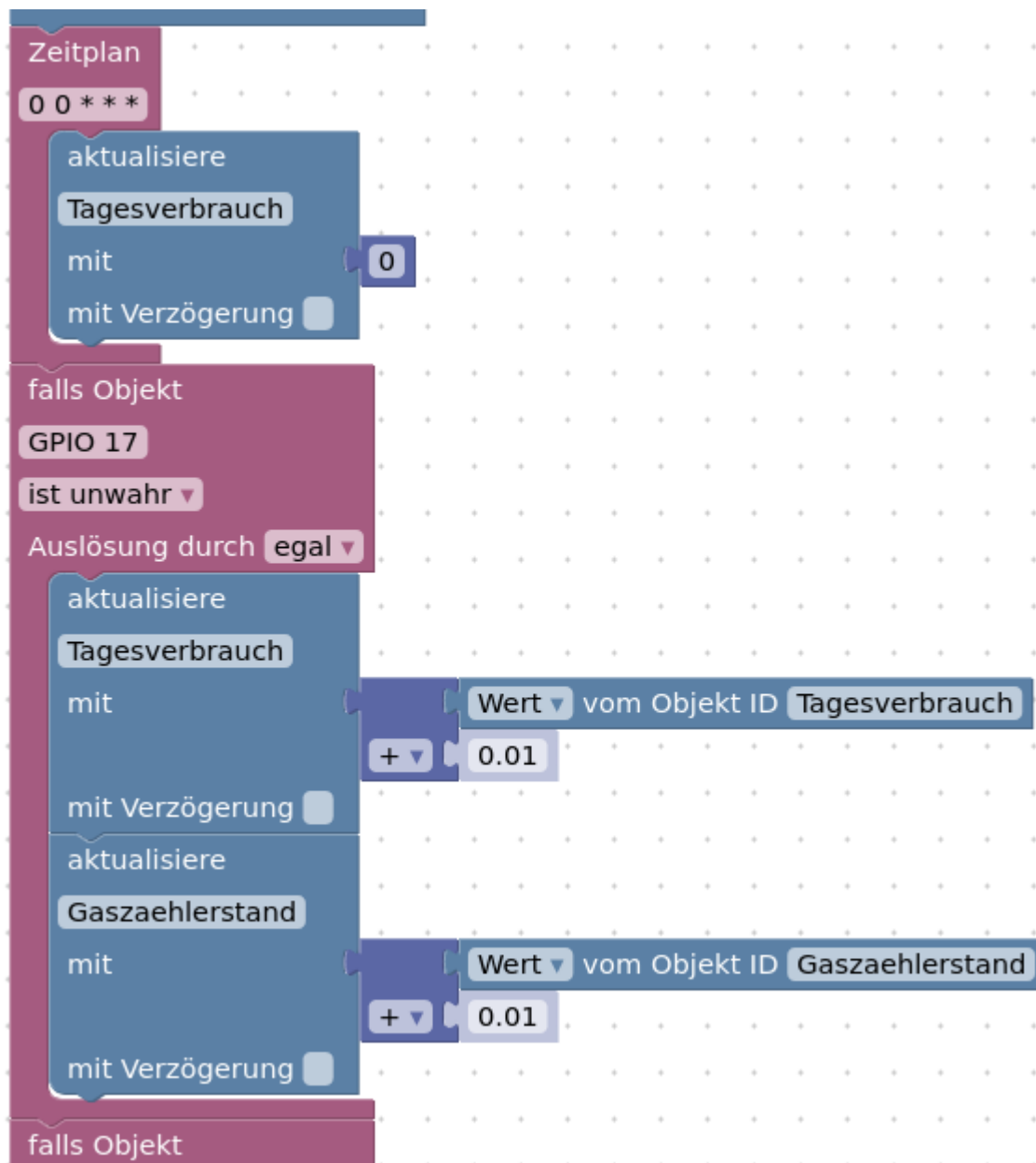
Kommunikationsprotokoll
CoAP 

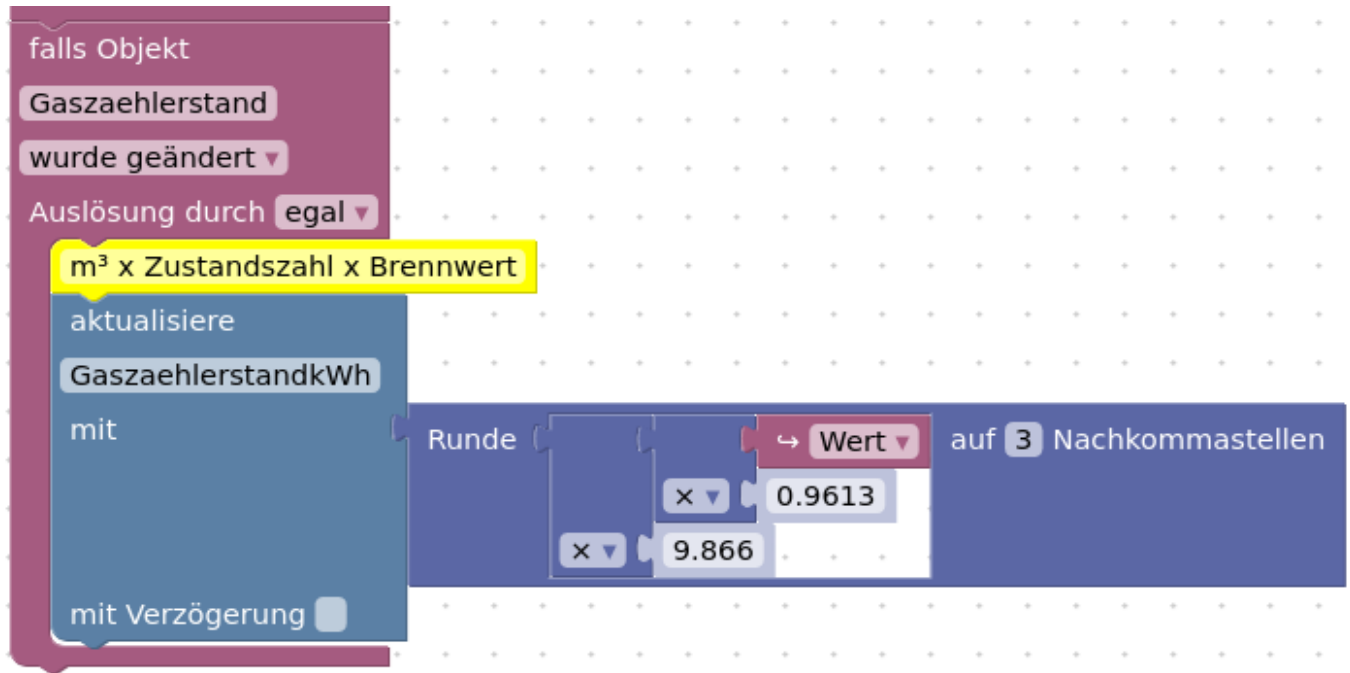
Gaszähler

Reedkontakt am GPIO #?

Blockly







Und das ganze als Java Script:

```
createState('Gaszaehlerstand', 0, JSON.parse('{"type":"number",
"unit":"m³"}'), async () => {
});
createState('GaszaehlerstandkWh', 0, JSON.parse('{"type":"number",
"unit":"kWh"}'), async () => {
});
createState('Tagesverbrauch', 0, JSON.parse('{"type":"number",
"unit":"m³"}'), async () => {
});
schedule("0 0 * * *", async () => {
  setState('javascript.0.Tagesverbrauch' /* Tagesverbrauch */, 0, true);
});
on({ id: 'rpi2.0.gpio.17.state' /* GPIO 17 */, val: false }, async (obj) => {
  let value = obj.state.val;
  let oldValue = obj.oldState.val;
  setState('javascript.0.Tagesverbrauch' /* Tagesverbrauch */,
(getState('javascript.0.Tagesverbrauch').val + 0.01), true);
  setState('javascript.0.Gaszaehlerstand' /* Gaszaehlerstand */,
(getState('javascript.0.Gaszaehlerstand').val + 0.01), true);
});
on({ id: 'javascript.0.Gaszaehlerstand' /* Gaszaehlerstand */, change: 'ne'
}, async (obj) => {
  let value = obj.state.val;
  let oldValue = obj.oldState.val;
  // m³ x Zustandszahl x Brennwert
  setState('javascript.0.GaszaehlerstandkWh' /* GaszaehlerstandkWh */,
Math.round(((obj.state ? obj.state.val : "") * 0.9613 * 9.866) * 1000) /
1000, true);
});
```

//JTNDeG1sJTtIweG1sbhMLM0QlMjJodHRwcyUzQSUyRiUyRmRldmVsb3BlcnMuZ29vZ2xlLmNvbS
 UyRmJsb2NrbHklMkZ4bWwlmjIlM0Ulm0NibG9jayUyMHR5cGUlM0QlMjJjcmVhdGUlMjIlMjBpZC
 UzRCUyMjBCJTdCJTdETGxSZCUyQ2QhQnI2NyU0MFZsYnYlMjIlMjB4JTNEJTIyMTEzJTIyJTlweS
 UzRCUyMi0xMTIlMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJ0QU1FJTlYJTnFR2FzemFlaGxlc
 N0Yw5kJTNDJTGZmlbGQlM0Ulm0N2YwX1ZSUyMG5hbWUlm0QlMjJWQUxVRSUyMiUzRSUzQ2Jsb2
 NrJTIwdHlwZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTlwaWQlM0QlMjJ6Q01IWIUzQiUyNCUzRGV2c1
 p+ZyUyMyUyNCUyNUIlMkNkJTIyJTnFJTNDZmlbGQlMjBuYW1lJTNEJTIyTlVnJTIyJTnFMCUzQy
 UyRmZpZWxkJTNFJTNDJTGyMxvY2s1M0Ulm0MlMkZ2YwX1ZSUzRSUzQ3ZhbHVlJTIwbmFtZSUzRC
 UyMkNPTU1PTiUyMiUzRSUzQ2Jsb2NrJTIwdHlwZSUzRCUyMnRleH0lMjIlMjBpZCUzRCUyMiUyQn
 dhSlhpQmV+MWRuJTGwU05CWEQlNURiJTIyJTnFJTNDZmlbGQlMjBuYW1lJTNEJTIyVEVYVCUyMi
 UzRSU3QiUyMnR5cGUlMjIlM0ElMjJudW1iZXIlMjIlMkMlMjAlMjJ1bm10JTIyJTnBJTIybSVDMi
 VCMYUyMiU3RCUzQyUyRmZpZWxkJTNFJTNDJTGyMxvY2s1M0Ulm0MlMkZ2YwX1ZSUzRSUzQ25leH
 QlM0Ulm0NibG9jayUyMHR5cGUlM0QlMjJjcmVhdGUlMjIlMjBpZCUzRCUyMjIlNUIlM0QlNURK
 MZ3ZVV5JTVEEiU1RGZlUmIqTiUyMiUzRSUzQ2ZpZWxkJTIwbmFtZSUzRCUyMk5BTUUMjIlM0VHYX
 N6YWVobGVyc3RhbmRrV2glM0MlMkZmaWVsZCUzRSUzQ3ZhbHVlJTIwbmFtZSUzRCUyMlZBTFVFJT
 IyJTnFJTNDYmxvY2s1MjB0eXBlJTNEJTIybWF0aF9udW1iZXIlMjIlMjBpZCUzRCUyMjYlMjN2a
 F2NEpoaVklN0NtWiU2MHR2YTQlMkIlMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJ0VU0lMjIlM0
 UwJTNDJTGZmlbGQlM0Ulm0MlMkZibG9jayUzRSUzQyUyRnZhbHVlJTnFJTNDdmFsdWUlmjBuYW
 1lJTNEJTIyQ09NTU90JTIyJTnFJTNDYmxvY2s1MjB0eXBlJTNEJTIydGV4dCUyMiUyMGlkJTNEJT
 IybEQlN0RwNy5WJTI1JTNEIVMlM0FlJTJGKFBqMSU1QmUlmjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0
 QlMjJURVhUJTIyJTnFJTdCJTlYdHlwZSUyMiUzQSUyMm51bWJlciUyMiUyQyUyMCUyMnVuaXQlMj
 IlM0ElMjJrV2glMjIlN0QlM0MlMkZmaWVsZCUzRSUzQyUyRmJsb2NrJTnFJTNDJTGdmFsdWUlm0
 Ulm0NuZXh0JTnFJTNDYmxvY2s1MjB0eXBlJTNEJTIyY3JlYXRlJTIyJTlwaWQlM0QlMjJKdCU1RV
 UlmjR3fiUyQzNSfilVUEpKUCUyQiUyNGMlMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJ0QU1FJT
 IyJTnFVGFnZXN2ZXJicmF1Y2glM0MlMkZmaWVsZCUzRSUzQ3ZhbHVlJTIwbmFtZSUzRCUyMlZBTF
 VFJTIyJTnFJTNDYmxvY2s1MjB0eXBlJTNEJTIybWF0aF9udW1iZXIlMjIlMjBpZCUzRCUyMm9iJT
 NCXzA5ISU1RXVrZV8lM0JjJTGwVXF0Q1o1MjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJ0VU0lMj
 IlM0UwJTNDJTGZmlbGQlM0Ulm0MlMkZibG9jayUzRSUzQyUyRnZhbHVlJTnFJTNDdmFsdWUlmjBu
 YW1lJTNEJTIyQ09NTU90JTIyJTnFJTNDYmxvY2s1MjB0eXBlJTNEJTIydGV4dCUyMiUyMGlkJT
 NEJTIyQnI3eSUzRCUyQ2RHQUY5SSU1RG1iJTNGei0lMkMlM0ElMjIlM0Ulm0NmaWVsZCUyMG5hbW
 Ulm0QlMjJURVhUJTIyJTnFJTdCJTlYdHlwZSUyMiUzQSUyMm51bWJlciUyMiUyQyUyMCUyMnVuaX
 QlMjIlM0ElMjJtJUMyJUizJTIyJTdEJTNDJTGZmlbGQlM0Ulm0MlMkZibG9jayUzRSUzQyUyRn
 ZhbHVlJTnFJTNDbmV4dCUzRSUzQ2Jsb2NrJTIwdHlwZSUzRCUyMnNjaGVkdWxkJTIyJTlwaWQlM0
 QlMjIlMjNUWCUzRFpYJTdCLXcyY3Ulm0RVaiFudU8qJTIyJTnFJTNDZmlbGQlMjBuYW1lJTNEJT
 IyU0NIRURVTEUlmjIlM0UwJTlIwMCUyMColMjAqJTlIwKiUzQyUyRmZpZWxkJTNFJTNDc3RhGvTZW
 50JTIwbmFtZSUzRCUyMlNUQVRFTUVOVCUyMiUzRSUzQ2Jsb2NrJTIwdHlwZSUzRCUyMnVwZGF0ZS
 UyMiUyMGlkJTNEJTIyJTQwMHVGbkszcCU0MGQoYUZ0elQlN0MlMkZsYiUyMiUyMGlubGluZSUzRC
 UyMmZhbHNlJTIyJTnFJTNDbXV0YXRpb24lMjB4bWxucyUzRCUyMmh0dHAlM0ElMkYlMkZ3d3cudz
 Mub3JnJTGMTk50SUyRnhodG1sJTlYJTlIwZGVsYXlfaW5wdXQlM0QlMjJmYWxzZSUyMiUzRSUzQy
 UyRm1ldGF0aW9uJTnFJTNDZmlbGQlMjBuYW1lJTNEJTIyT0lEJTIyJTnFamF2YXNjcm1wdC4wLl
 RhZ2VzdmVYnJhdWNoJTNDJTGZmlbGQlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJXSvRlX0RfTE
 FZJTIyJTnFRkFMU0Ulm0MlMkZmaWVsZCUzRSUzQ3ZhbHVlJTIwbmFtZSUzRCUyMlZBTFVFJTIyJT
 nFJTNDYmxvY2s1MjB0eXBlJTNEJTIybWF0aF9udW1iZXIlMjIlMjBpZCUzRCUyMjQpciUyQ1glNj
 BGZy4lNUJxJTNEdV9IKmxmUmslMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJ0VU0lMjIlM0UwJT
 NDJTGZmlbGQlM0Ulm0MlMkZibG9jayUzRSUzQyUyRnZhbHVlJTnFJTNDJTGyMxvY2s1M0Ulm0
 MlMkZzdGF0ZW1lbnQlM0Ulm0NuZXh0JTnFJTNDYmxvY2s1MjB0eXBlJTNEJTIyb24lMjIlMjBpZC
 UzRCUyMmFGZiUyRiU0MCU1RSpSNEgpcCUyMyUyQ3U2RiU1RS4pJTIyJTnFJTNDZmlbGQlMjBuYW
 1lJTNEJTIyT0lEJTIyJTnFfCnBpMi4wLmdwaW8uMTcuc3RhGulM0MlMkZmaWVsZCUzRSUzQ2ZpZW
 xkJTIwbmFtZSUzRCUyMkNPTkRjVElPTiUyMiUzRWZhbHNlJTNDJTGZmlbGQlM0Ulm0NmaWVsZC

UyMG5hbWULM0QLMjJBQ0tfQ090RELUSU90JTIyJTNFJTNDJTJGZml1bGQlM0ULM0NzdGF0ZWl1bnQlMjBuYW11JTNEJTIyU1RBVEVNRU5UJTIyJTNFJTNDYmxvY2s1MjB0eXBlJTNEJTIyYdXBkYXRlJT
IyJTIwaWQlM0QLMjJ0ZHp+anc1NjBPJTdEJTI0Gk1N0NNESEJUQm41JTIyJTIwaW5saW51JTNEJT
IyZmFsc2ULMjI1M0ULM0NtdXRhdGlvbiUyMHhtbG5zJTNEJTIyaHR0cCUzQSUYRiUyRnd3dy53My
5vcmc1MkYxOTk5JTIJGeGh0bWw1MjI1MjBkZWxheV9pbmB1dCUzRCUyMmZhbHN1JTIyJTNFJTNDJT
JGbxV0YXRpb241M0ULM0NmaWVsZCUyMG5hbWULM0QLMjJPSUQLMjI1M0VqYXZhc2NyaXB0LjAuVG
FnZXN2ZXJicmF1Y2g1M0MLMkZmaWVsZCUzRSUzQ2ZpZWxkJTJwbmFtZSUzRCUyMldJVEhfREVMQV
klMjI1M0VGQUxTRSUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMldJVEhfREVMQVklMjI1M0ULM0NibG9jayUyMHR5cGULM0QLMjJtYXR0X2FyaXRobWV0aWMLMjI1MjBpZCUzRCUyMkRXT1R0cm
9NJTdDRkxXJTIJGwGclMk1RJTQwa3I1MjI1MjBpbmxbmULM0QLMjJmYXxzZSUyMiUzRSUzQ2ZpZW
xkJTJwbmFtZSUzRCUyMk9JTIyJTNFQUREJTN0JTJGZml1bGQlM0ULM0N2YWx1ZSUyMG5hbWULM0
QLMjJBjTIyJTNFJTNDc2hhZG93JTIwdHlwZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
I4NyU1RFpqJTI0RyU1RC4qJTDdCdHJXYTAqQmh+JTJyJTNFJTNDZml1bGQlMjBuYW11JTNEJTIyTl
VNJTIyJTNFM5UzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
IyZ2V0X3ZhbHVlJTIyJTIwaWQlM0QLMjJN0SU0ME94JTD0GdGMCUzQUhDbYUyNHhfDCUyQiklMj
I1M0ULM0NmaWVsZCUyMG5hbWULM0QLMjJBVFRSJTIyJTNFdmFsJTNDJTJGZml1bGQlM0ULM0NmaW
VsZCUyMG5hbWULM0QLMjJPSUQLMjI1M0VqYXZhc2NyaXB0LjAuVGFnZXN2ZXJicmF1Y2g1M0MLMk
ZmaWVsZCUzRSUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
JCJTIyJTNFJTNDc2hhZG93JTIwdHlwZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMjJXJT
VCJTDdCKWNQJTDdE0TByLWpDNFApJTQwUzFqJTIyJTNFJTNDZml1bGQlMjBuYW11JTNEJTIyTlVNJT
IyJTNFM4CwMSUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
ZibG9jayUzRSUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
F0ZSUyMiUyMGLkJTNEJTIyanI5Uk41MkZIR0VWdmJKJTDdC2FzJTNEQWw1MjI1MjBpbmxbmULM0
QLMjJmYXxzZSUyMiUzRSUzQ211dGF0aW9uJTIweG1sbm1M0QLMjJodHRwJTJBNjJGJTJGd3d3Ln
czLm9yZyUyRjE50Tk1MkZ4aHRtbCUyMiUyMGRlbGF5X21ucHV0JTNEJTIyZmFsc2ULMjI1M0ULM0
MLMkZtdXRhdGlvbiUzRSUzQ2ZpZWxkJTJwbmFtZSUzRCUyMk9JRCUyMiUzRWphdmFzY3JpcHQuMC
5HYXN6YWVobGVyc3RhbmQlM0MLMkZmaWVsZCUzRSUzQ2ZpZWxkJTJwbmFtZSUzRCUyMldJVEhfRE
VMQVklMjI1M0VGQUxTRSUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMldJVEhfREVMQVklMjI1M0ULM0NibG9jayUyMHR5cGULM0QLMjJtYXR0X2FyaXRobWV0aWMLMjI1MjBpZCUzRCUyMiE4LU
lwcDdDclElNUQLM0QLM0R0SW5aVkJzJTIyJTIwaW5saW51JTNEJTIyZmFsc2ULMjI1M0ULM0NmaW
VsZCUyMG5hbWULM0QLMjJPUCUyMiUzRUFERCUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMldJVEhfRE
NEJTIyQSUyMiUzRSUzQ3NoYWRvdyUyMHR5cGULM0QLMjJtYXR0X251bW1lc1UyMiUyMGLkJTNEJT
IyJTNEM2NCJTIzZVpiLW01N0JCQWJkX0pCJTNEJTI0JTIyJTNFJTNDZml1bGQlMjBuYW11JTNEJT
IyTlVNJTIyJTNFM5UzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
IyZ2V0X3ZhbHVlJTIyJTIwaWQlM0QLMjIyJTIJCbXpXKkwlNDA1NjA5aCU0MGQwUC01MkMLMk
Y0RiUyMiUzRSUzQ2ZpZWxkJTJwbmFtZSUzRCUyMkFUVFI1MjI1M0V2YWw1M0MLMkZmaWVsZCUzRS
UzQ2ZpZWxkJTJwbmFtZSUzRCUyMk9JRCUyMiUzRWphdmFzY3JpcHQuMC5HYXN6YWVobGVyc3Rhbm
QlM0MLMkZmaWVsZCUzRSUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0
QLMjJxJTNBcDdGYXFzX2Y1N0JSdkkxX0oueDI1MjI1M0ULM0NmaWVsZCUyMG5hbWULM0QLMjJ0VU
01MjI1M0UwLjAxJTNDJTJGZml1bGQlM0ULM0MLMkZzaGFkb3c1M0ULM0MLMkZ2YWx1ZSUzRSUzQy
UyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMjJibG9jayUzRSUzQyUyRm5leHQ1M0ULM0MLMk
ZibG9jayUzRSUzQyUyRmN0YXRlbWVudCUzRSUzQ25leHQ1M0ULM0NibG9jayUyMHR5cGULM0QLMj
JvbiUyMiUyMGLkJTNEJTIyanI1dvbXclNjBxbF95dSU3Qmk5big1MkY1M0YzLSUyMiUzRSUzQ2ZpZW
xkJTJwbmFtZSUzRCUyMk9JRCUyMiUzRWphdmFzY3JpcHQuMC5HYXN6YWVobGVyc3RhbmQlM0MLMk
ZmaWVsZCUzRSUzQ2ZpZWxkJTJwbmFtZSUzRCUyMkNPTkRjVElPTiUyMiUzRW51JTNDJTJGZml1bG
QlM0ULM0NmaWVsZCUyMG5hbWULM0QLMjJBQ0tfQ090RELUSU90JTIyJTNFJTNDJTJGZml1bGQlM0
ULM0NzdGF0ZWl1bnQlMjBuYW11JTNEJTIyU1RBVEVNRU5UJTIyJTNFJTNDYmxvY2s1MjB0eXBlJT
NEJTIyY29tbWVudCUyMiUyMGLkJTNEJTIyVC01MjI1MjBpZCUzRCUyMkRXT1R0cm9NJTdDRkxXJTIJGwGclMk1RJTQwa3I1MjI1MjBpbmxbmULM0QLMjJmYXxzZSUyMiUzRSUzQ2ZpZW
xkJTJwbmFtZSUzRCUyMk9JTIyJTNFQUREJTN0JTJGZml1bGQlM0ULM0N2YWx1ZSUyMG5hbWULM0
QLMjJBjTIyJTNFJTNDc2hhZG93JTIwdHlwZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
I4NyU1RFpqJTI0RyU1RC4qJTDdCdHJXYTAqQmh+JTJyJTNFJTNDZml1bGQlMjBuYW11JTNEJTIyTl
VNJTIyJTNFM5UzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
IyZ2V0X3ZhbHVlJTIyJTIwaWQlM0QLMjJN0SU0ME94JTD0GdGMCUzQUhDbYUyNHhfDCUyQiklMj
I1M0ULM0NmaWVsZCUyMG5hbWULM0QLMjJBVFRSJTIyJTNFdmFsJTNDJTJGZml1bGQlM0ULM0NmaW
VsZCUyMG5hbWULM0QLMjJPSUQLMjI1M0VqYXZhc2NyaXB0LjAuVGFnZXN2ZXJicmF1Y2g1M0MLMk
ZmaWVsZCUzRSUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
JCJTIyJTNFJTNDc2hhZG93JTIwdHlwZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMjJXJT
VCJTDdCKWNQJTDdE0TByLWpDNFApJTQwUzFqJTIyJTNFJTNDZml1bGQlMjBuYW11JTNEJTIyTlVNJT
IyJTNFM4CwMSUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
ZibG9jayUzRSUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMm1hdGhfbnVtYmVYJTIyJTIwaWQlM0QLMj
F0ZSUyMiUyMGLkJTNEJTIyanI5Uk41MkZIR0VWdmJKJTDdC2FzJTNEQWw1MjI1MjBpbmxbmULM0
QLMjJmYXxzZSUyMiUzRSUzQ211dGF0aW9uJTIweG1sbm1M0QLMjJodHRwJTJBNjJGJTJGd3d3Ln
czLm9yZyUyRjE50Tk1MkZ4aHRtbCUyMiUyMGRlbGF5X21ucHV0JTNEJTIyZmFsc2ULMjI1M0ULM0
MLMkZtdXRhdGlvbiUzRSUzQ2ZpZWxkJTJwbmFtZSUzRCUyMk9JRCUyMiUzRWphdmFzY3JpcHQuMC
5HYXN6YWVobGVyc3RhbmQlM0MLMkZmaWVsZCUzRSUzQ2ZpZWxkJTJwbmFtZSUzRCUyMldJVEhfRE
VMQVklMjI1M0VGQUxTRSUzQyUyRmZpZWxkJTJwbmFtZSUzRCUyMldJVEhfREVMQVklMjI1M0ULM0NibG9jayUyMHR5cGULM0QLMjJtYXR0X2FyaXRobWV0aWMLMjI1MjBpZCUzRCUyMiE4LU
lwcDdDclElNUQLM0QLM0R0SW5aVkJzJTIy

sLmJb0eXBLJTNEJTIydXBkYXRlJTIyJTIwaWQlM0QlMjIpbY0lM0FnMkpPJTQwbVclN0NOUEMlMk
NfLWdhJTIyJTIwaW5saW5lJTNEJTIyZmFsc2UlMjIlM0Ulm0NtdXRhdGlubiUyMHhtbG5zJTNEJT
IyaHR0cCUzQSUyRiUyRnd3dy53My5vcmlMkYxOTk5JTJGeGh0bWwlmJlMjBkZWxheV9pbNBlDc
UzRCUyMmZhbHNlJTIyJTNFJTNDJTGbXV0YXRpb24lM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJPSU
QlMjIlM0VqYXZhc2NyaXB0LjAuR2FzemFlaGxlcN0YW5ka1doJTNDJTGZmlbGQlM0Ulm0NmaW
VsZCUyMG5hbWUlm0QlMjJXSvRlX0RfTEFZJTIyJTNFRkFMU0Ulm0MlMkZmaWVsZCUzRSUzQ3ZhbH
VlJTIwbmFtZSUzRCUyMlZBTfVFJTIyJTNFJTNDYmxvY2sLmJb0eXBLJTNEJTIybWF0aF9ybmRmaX
hlZCUyMiUyMGlkJTIyJTIyazBLJTdDSElUVyU3Q3BWZGYtZyolMkNYN0glMjIlM0Ulm0NmaWVsZC
UyMG5hbWUlm0QlMjJuJTIyJTNFMyUzQyUyRmZpZWxkJTNFJTNDdmFsdWUlmJBUyW1lJTNEJTIyeC
UyMiUzRSUzQ3NoYWRvdyUyMHR5cGUlM0QlMjJtYXR0X251bWJlciUyMiUyMGlkJTIyJTIyVCU0ME
M5JTDdEVyUyNVJqMzN2RWpnTndaciU3QiUyMiUzRSUzQ2ZpZWxkJTIwbmFtZSUzRCUyMk5VTSUyMi
UzRTMuMTIzNCUzQyUyRmZpZWxkJTNFJTNDJTGc2hhZG93JTNEJTNDYmxvY2sLmJb0eXBLJTNEJT
IybWF0aF9hcml0aG1ldGljJTIyJTIwaWQlM0QlMjIlNjBUSiUzQVhfIXhmWmdjcSU1QiUzQk5JT3
5NJTIyJTIwaW5saW5lJTNEJTIyZmFsc2UlMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJPUCUyMi
UzRU1VTFRlUExZJTNDJTGZmlbGQlM0Ulm0N2YWx1ZSUyMG5hbWUlm0QlMjJBjTIyJTNFJTNDc2
hhZG93JTIwdHlwZSUzRCUyMm1hdGhfbnVtYmVyJTIyJTIwaWQlM0QlMjJtTFQlN0NpJTDcR2Uln0
IlMjRQqMlM0QyQ2xqeUglMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJ0VU0lMjIlM0UxJTNDJT
JGZmlbGQlM0Ulm0MlMkZzaGFkb3clM0Ulm0NibG9jayUyMHR5cGUlM0QlMjJtYXR0X2FyaXRobW
V0aWwlmJlMjBpZCUzRCUyMldldCUzRGdVRkQlMjU0aDNGJTDcSDJxZSguJTIyJTIwaW5saW5lJT
NEJTIyZmFsc2UlMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJPUCUyMiUzRU1VTFRlUExZJTNDJT
JGZmlbGQlM0Ulm0N2YWx1ZSUyMG5hbWUlm0QlMjJBjTIyJTNFJTNDc2hhZG93JTIwdHlwZSUzRC
UyMm1hdGhfbnVtYmVyJTIyJTIwaWQlM0QlMjJYeTIlNjB0cCpleiUyM3UlnUvWJTNCJTQwcZJEKU
0lMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJ0VU0lMjIlM0UxJTNDJTGZmlbGQlM0Ulm0MlMk
ZzaGFkb3clM0Ulm0NibG9jayUyMHR5cGUlM0QlMjJvbl9zb3VyY2UlmJlMjBpZCUzRCUyMmJlJT
JGeW0lMCUyNSUyQ0thZXZwSDZFJTVCkjlMlMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJBVFRSJT
IyJTNFc3RhZGUudmFsJTNDJTGZmlbGQlM0Ulm0MlMkZibG9jayUzRSUzQyUyRnZhbHVlJTNFJT
NDdmFsdWUlmJBUyW1lJTNEJTIyQiUyMiUzRSUzQ3NoYWRvdyUyMHR5cGUlM0QlMjJtYXR0X251bW
JlciUyMiUyMGlkJTIyJTIyMTduNDRzb2gtTUMubEItUHQlMjUlmJVoJTIyJTNFJTNDZmlbGQlMj
BUyW1lJTNEJTIyTlVNJTIyJTNFMc45NjEzJTNDJTGZmlbGQlM0Ulm0MlMkZzaGFkb3clM0Ulm0
MlMkZ2YWx1ZSUzRSUzQyUyRmJsb2NrJTNFJTNDJTGdmFsdWUlm0Ulm0N2YWx1ZSUyMG5hbWUlm0
QlMjJCjTIyJTNFJTNDc2hhZG93JTIwdHlwZSUzRCUyMm1hdGhfbnVtYmVyJTIyJTIwaWQlM0QlMj
JDJTDdEZ0hPJTVEJTVCMGQlN0R+aiU0MCU1QnQ2LlZnWCUyMiUzRSUzQ2ZpZWxkJTIwbmFtZSUzRC
UyMk5VTSUyMiUzRTkuODY2JTNDJTGZmlbGQlM0Ulm0MlMkZzaGFkb3clM0Ulm0MlMkZ2YWx1ZS
UzRSUzQyUyRmJsb2NrJTNFJTNDJTGdmFsdWUlm0Ulm0MlMkZibG9jayUzRSUzQyUyRnZhbHVlJT
NFJTNDJTGyMxvY2sLm0Ulm0MlMkZuZXh0JTNFJTNDJTGyMxvY2sLm0Ulm0MlMkZzdGF0ZW1lbn
QlM0Ulm0MlMkZibG9jayUzRSUzQyUyRm5leHQlM0Ulm0MlMkZibG9jayUzRSUzQyUyRm5leHQlM0
Ulm0MlMkZibG9jayUzRSUzQyUyRm5leHQlM0Ulm0MlMkZibG9jayUzRSUzQyUyRm5leHQlM0Ulm0
MlMkZibG9jayUzRSUzQyUyRm5leHQlM0Ulm0MlMkZibG9jayUzRSUzQyUyRnhtbCUzRQ==

InfluxDB

Instanzeinstellungen: influxdb.0 v3.2.0 warn

DB SETTINGS STANDARDEINSTELLUNGEN EXPERTENEINSTELLUNGEN

DB-Version: 1.x

Protokoll: http Server: localhost Port: 8086

Benutzer: admin Passwort: Passwort (wiederholen):

DB Name: iobroker

Request Timeout: 30000 Millisekunden

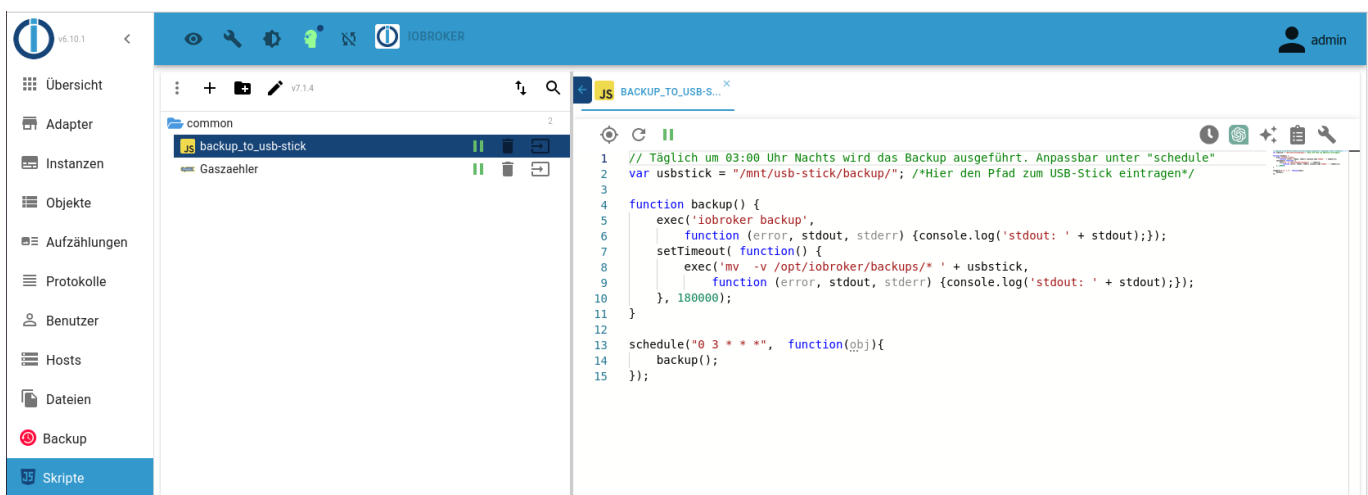
Runden Sie bei der Abfrage die Zahlen auf: 4 ☒ Protokollieren Sie den letzten Wert erneut beim Start

Schreibaktionen zusammenfassen: 0 Schreibintervall: 60 Sekunden

Wert 0 schreibt Werte direkt

[DIE VERBINDUNG ZUM SERVER TESTEN](#) [ALLE DATEN IN DATENBANK LÖSCHEN](#)

Backup durch Script



```
// Täglich um 03:00 Uhr Nachts wird das Backup ausgeführt. Anpassbar unter
"schedule"
var usbstick = "/mnt/usb-stick/backup/"; /*Hier den Pfad zum USB-Stick
eintragen*/

function backup() {
    exec('iobroker backup',
        function (error, stdout, stderr) {console.log('stdout: ' +
stdout);});
    setTimeout( function() {
        exec('mv -v /opt/iobroker/backups/* ' + usbstick,
            function (error, stdout, stderr) {console.log('stdout: ' +
stdout);});
    }, 180000);
}

schedule("0 3 * * *", function(obj){
```

```
    backup();  
});
```

Update und Bugfixing

```
iobroker stop  
iobroker update  
iobroker fix  
# oder curl -sL https://iobroker.net/fix.sh | bash -  
iobroker upgrade self  
iobroker start
```

From:

<https://www.von-thuelen.de/> - Christophs DokuWiki

Permanent link:

<https://www.von-thuelen.de/doku.php/wiki/projekte/iobroker/uebersicht?rev=1698483772>

Last update: **2023/10/28 09:02**

