

Luftdaten / Airrohr in ESPHome

Hier ist die Funktion des Projekts von luftdaten.info bzw. sensor.community in ESPHome umgesetzt. Es fehlt hier natürlich die Anbindung an die offiziellen externen APIs oder Schnittstellen außerhalb von Home Assistant (z.B: InfluxDB).

```
esphome:
  name: luftdaten1
  platform: ESP8266
  board: nodemcu2

wifi:
  ssid: !secret iot_wifi_ssid
  password: !secret iot_wifi_password
  manual_ip:
    static_ip: 172.16.72.102
    gateway: 172.16.72.1
    subnet: 255.255.255.0
    dns1: 172.16.71.1

ap:
  ssid: "Luftdaten Fallback Hotspot"
  password: !secret fallback_password

captive_portal:

# Enable logging, but use UART1 as UART0 is used by the sds011 sensor
logger:
  hardware_uart: UART1

api:

ota:

# serial communication SDS011 particle matter concentration sensor
uart:
  rx_pin: D1
  tx_pin: D2
  baud_rate: 9600
```

sensor:

SDS011 particle matter concentration sensor

- platform: sds011

pm_2_5:

name: "Luftdaten Feinstaubkonzentration <2.5µm"

pm_10_0:

name: "Luftdaten Feinstaubkonzentration <10.0µm"

update_interval: 5min

DHTP22

- platform: dht

pin: D7

temperature:

name: "Luftdaten Temperatur"

humidity:

name: "Luftdaten Luftfeuchtigkeit"

update_interval: 60s

- platform: wifi_signal

name: "Luftdaten WiFi Signal"

id: luftdaten_wifi_signal

update_interval: 60s

- platform: template

name: "Luftdaten WiFi Quality"

update_interval: 60s

unit_of_measurement: "%"

icon: "mdi:wifi"

lambda: |-

```
if (id(luftdaten_wifi_signal).state <= -100) {  
    return 0;  
} else if (id(luftdaten_wifi_signal).state >= -50) {  
    return 100;  
} else {  
    return 2 * (id(luftdaten_wifi_signal).state + 100);  
}
```

Revision #2

Created 10 June 2021 19:01:57 by magenbrot

Updated 10 June 2021 19:06:51 by magenbrot