

HTTP API interface

Author / Editor	Version	Date	Notes
Liao Chaogao	V1.0.0	2022-04-25	GW1100, GW2000
Liao Chaogao	V1.0.1	2022-07-01	Fixed typo: <i>calibraion</i> → <i>calibration</i>
Liao Chaogao	V1.0.2	2022-09-20	—
Liao Chaogao	V1.0.3	2024-12-18	Added ch_lds and debug objects to get_livedata_info. Added Get_cli_lds API. Added Set_cli_lds API. Customized added support for MQTT , therefore Set_ws_settings / Get_ws_settings were updated.
Liao Chaogao	V1.0.4	2025-04-14	1. Added new members to the CO2 object in get_livedata_info. 2. Added Publish Topic , Keep Alive , and Transport fields to get_ws_settings. 3. Added level and total_heat parameters to Get_cli_lds and Set_cli_lds APIs.
Liao Chaogao	V1.0.5	2025-10-08	Added support for eWN20_SENSOR and eWN38_SENSOR parameters in get_sensors_info and set_sensors_info.
Liao Chaogao	V1.0.6	2025.01.09	The get_livedata_info interface has added VPD, BGT, and WBGT parameters. The get_livedata_info interface has added multi-channel EC data (ch_ec).

Content

HTTP API interface	1
1. get_livedata_info	1
2. get_network_info	9
3. set_network_info	10
4. usr_scan_ssid_list	11
5. get_ws_settings	12
6. set_ws_settings	14
7. get_sensors_info	16
8. set_sensors_info	35
9. get_rain_totals	35
10. get_piezo_rain	36
11. set_rain_totals	36
12. set_piezo_rain	37
13. get_calibration_data	37
14. set_calibration_data	38
15. get_cli_soilad :	38
16. set_cli_soilad	40
17. get_cli_multiCh	42
18. set_cli_multiCh	43
19. get_cli_pm25	44
20. set_cli_pm25	45
21. get_cli_co2	45
22. set_cli_co2	45
23. get_units_info	46
24. set_units_info	46
25. get_device_info	46
26. set_device_info	47
27. upgrade_process	47
28. Reboot	47
29. Restore Default	48
30. Get_version	48
31. Get_cli_lds	48
32. Set_cli_lds	49

1. get_livedata_info

```
“common_list”: {  
    id : ITEM_XXXX_list  
    val :  
    unit :  
    Battery :  
}
```

```
ITEM_XXXX_list : {  
#define ITEM_vpd 5  
#define ITEM_INTEMP 2 0x01//Indoor Temperature (°C)  
#define ITEM_OUTTEMP 2 0x02//Outdoor Temperature (°C)  
#define ITEM_DEWPOINT 2 0x03//Dew point (°C)  
#define ITEM_WINDCHILL 2 0x04//Wind chill (°C)  
#define ITEM_HEATINDEX 2 0x05//Heat index (°C)  
#define ITEM_INHUMI 1 0x06//Indoor Humidity (%)  
#define ITEM_OUTHUMI 1 0x07//Outdoor Humidity (%)  
#define ITEM_ABSBARO 2 0x08//Absolutely Barometric (hpa)  
#define ITEM_RELBARO 2 0x09//Relative Barometric (hpa)  
#define ITEM_WINDDIRECTION 2 0x0A//Wind Direction (360°)  
#define ITEM_WINDSPEED 2 0x0B//Wind Speed (m/s)  
#define ITEM_GUSTSPEED 2 0x0C//Gust Speed (m/s)  
#define ITEM_RAINEVENT 2 0x0D//Rain Event (mm)  
#define ITEM_RAINRATE 2 0x0E//Rain Rate (mm/h)  
#define ITEM_RAIN_GAIN 2 0x0F//Rain gain (mm)  
#define ITEM_RAINDAY 2 0x10//Rain Day (mm)  
#define ITEM_RAINWEEK 2 0x11//Rain Week (mm)  
#define ITEM_RAINMONTH 4 0x12//Rain Month (mm)  
#define ITEM_RAINYEAR 4 0x13//Rain Year (mm)  
#define ITEM_RAINTOTALS 4 0x14//Rain Totals (mm)  
#define ITEM_LIGHT 4 0x15//Light (lux)  
#define ITEM_UV 2 0x16//UV (uW/m2)  
#define ITEM_UVI 1 0x17//UVI (0-15 index)  
#define ITEM_TIME 6 0x18//Date and time  
#define ITEM_DAYLWINDMAX 2 0X19//Day max wind(m/s)  
}
```

Example :

Request URL: http://10.10.10.106/get_livedata_info? (10.10.10.106 is the IP address of the device. Set this parameter based on the actual DEVICE IP address)

Request Method: GET

¹ http api

Response:

```
ch_aisle: [{channel: "1", name: "", battery: "0", temp: "80.2", unit: "F", humidity: "None"},...]
ch_lds: [{channel: "1", name: "", unit: "mm", battery: "5", voltage: "1.54", air: "55 mm", depth: "3945 mm"},...]
ch_leaf: [{channel: "1", name: "", humidity: "6%", battery: "5"},...]
ch_leak: [{channel: "4", name: "", battery: "1", status: "Normal"}]
ch_pm25: [{channel: "1", PM25: "11.0", PM25_RealAQI: "46", PM25_24HAQI: "55", battery: "6"},...]
ch_soil: [{channel: "1", name: "", battery: "1", humidity: "0%"},...]
ch_temp: [{channel: "1", name: "", temp: "82.4", unit: "F", battery: "2"},...]
co2: [{temp: "81.7", unit: "F", humidity: "68%", PM25: "6.7", PM25_RealAQI: "28", PM25_24HAQI: "39",...}]
common_list: [{id: "0x02", val: "80.1", unit: "F"}, {id: "0x07", val: "68%"}, {id: "3", val: "80.1", unit: "F"},...]
debug: [{heap: "91272", runtime: "3323", usr_interval: "60", is_cnip: true}]
lightning: [{distance: "34 km", date: "2024-11-25T20:41:16", timestamp: "11/25/2024 20:41:16", count: "0",...}]
piezoRain: [{id: "0x0D", val: "0.00 in"}, {id: "0x0E", val: "0.00 in/Hr"}, {id: "0x10", val: "0.00 in"},...]
rain: [{id: "0x0D", val: "0.00 in"}, {id: "0x0E", val: "0.00 in/Hr"}, {id: "0x10", val: "0.00 in"},...]
wh25: [{intemp: "83.8", unit: "F", inhumi: "67%", abs: "29.32 inHg", rel: "29.32 inHg"}]
```

```
{
  "common_list": [{
    "id": "0x02",
    "val": "79.2",
    "unit": "F"
  }, {
    "id": "0x07",
    "val": "65%"
  }, {
    "id": "3", //Feel like
    "val": "79.2",
    "unit": "F"
  }, {
    "id": "0x03",
    "val": "66.4",
    "unit": "F",
    "battery": "0"
  }, {
    "id": "0x04",
    "val": "79.2",
    "unit": "F"
  }, {
    "id": "0x0B",
    "val": "0.00 mph"
  }, {
    "id": "0x0C",
    "val": "1.12 mph"
  }, {

```

```

        "id": "0x19",
        "val": "1.34 mph"
    }, {
        "id": "0x15",
        "val": "0.00 w/m2"
    }, {
        "id": "0x17",
        "val": "0"
    }, {
        "id": "0x0A",
        "val": "37",
        "battery": "5"
    } ],

```

```

"rain": [ { //rain sensor
    "id": "0x0D",
    "val": "0.00 in"
}, {
    "id": "0x0E",
    "val": "0.00 in/Hr"
}, {
    "id": "0x10",
    "val": "0.00 in"
}, {
    "id": "0x11",
    "val": "0.00 in"
}, {
    "id": "0x12",
    "val": "0.00 in"
}, {
    "id": "0x13",
    "val": "0.00 in",
    "battery": "0"
} ],

```

```

"piezoRain": [ { //Piezoelectric rain sensors
    "id": "0x0D",
    "val": "0.00 in"
}, {
    "id": "0x0E",
    "val": "0.00 in/Hr"
}, {
    "id": "0x10",
    "val": "0.00 in"
} ],

```

```

    }, {
      "id": "0x11",
      "val": "0.00 in"
    }, {
      "id": "0x12",
      "val": "0.00 in"
    }, {
      "id": "0x13",
      "val": "0.00 in",
      "battery": "4"
    }
  ],

```

```

"wh25": [ { //Temperature, humidity and air pressure sensor (Built in or independent)
  "intemp": "81.0",
  "unit": "F",
  "inhumi": "62%",
  "abs": "29.40 inHg",
  "rel": "29.40 inHg"
}],

```

```

"lightning": [ { //lightning sensors
  "distance": "34 km",
  "date": "2024-11-25T20:41:16",
  "timestamp": "11/25/2024 20:41:16",
  "count": "0",
  "battery": "5"
}]

```

```

"co2": [ { //Co2 sensors (2025-04-14 is New)
  "temp": "24.0",
  "unit": "C",
  "humidity": "50%",
  "PM25": "13.0",
  "PM25_RealAQI": "53",
  "PM25_24HAQI": "60",
  "PM25_24H": "16.4",
  "PM10": "13.9",
  "PM10_RealAQI": "13",
  "PM10_24HAQI": "18",
  "PM10_24H": "19.9",
  "PM1": "11.5",
  "PM1_RealAQI": "48",
  "PM1_24HAQI": "52",

```

```

        "PM1_24H": "12.8",
        "PM4": "13.6",
        "PM4_RealAQI": "54",
        "PM4_24HAQI": "65",
        "PM4_24H": "18.8",
        "CO2": "880",
        "CO2_24H": "656",
        "battery": "6"
    }
}

"ch_pm25": [ { //Multichannel PM25 sensors
    "channel": "1",
    "PM25": "27.0",
    "PM25_RealAQI": "82",
    "PM25_24HAQI": "82",
    "battery": "6"
}],

"ch_leak": [ { //Multichannel leak sensors
    "channel": "4",
    "name": "",
    "battery": "1",
    "status": "Normal"
}],

"ch_aisle": [ { //Multichannel temperature and humidity sensors
    "channel": "1",
    "name": "",
    "battery": "0",
    "temp": "80.2",
    "unit": "F",
    "humidity": "None"
}, {
    "channel": "2",
    "name": "",
    "battery": "0",
    "temp": "77.9",
    "unit": "F",
    "humidity": "64%"
}, {
    "channel": "3",
    "name": "",
    "battery": "0",
    "temp": "79.5",
    "unit": "F",
    "humidity": "64%"
}

```

```

    }, {
      "channel": "4",
      "name": "",
      "battery": "0",
      "temp": "79.3",
      "unit": "F",
      "humidity": "64%"
    }, {
      "channel": "5",
      "name": "",
      "battery": "0",
      "temp": "83.8",
      "unit": "F",
      "humidity": "57%"
    }, {
      "channel": "6",
      "name": "",
      "battery": "0",
      "temp": "79.7",
      "unit": "F",
      "humidity": "63%"
    }, {
      "channel": "7",
      "name": "",
      "battery": "0",
      "temp": "84.4",
      "unit": "F",
      "humidity": "57%"
    }, {
      "channel": "8",
      "name": "",
      "battery": "0",
      "temp": "79.5",
      "unit": "F",
      "humidity": "63%"
    }
  ],

```

```

"ch_soil": [{ //Multichannel soil moisture sensors
  "channel": "1",
  "name": "",
  "battery": "1",
  "humidity": "0%"
}, {
  "channel": "2",

```

```

        "name": "",
        "battery": "1",
        "humidity": "0%"
    }, {
        "channel": "3",
        "name": "",
        "battery": "0",
        "humidity": "0%"
    }, {
        "channel": "4",
        "name": "",
        "battery": "1",
        "humidity": "3%"
    }, {
        "channel": "5",
        "name": "",
        "battery": "0",
        "humidity": "0%"
    }, {
        "channel": "6",
        "name": "",
        "battery": "0",
        "humidity": "0%"
    }, {
        "channel": "7",
        "name": "",
        "battery": "1",
        "humidity": "0%"
    }, {
        "channel": "8",
        "name": "",
        "battery": "1",
        "humidity": "0%"
    }
}],

```

```

"ch_temp": [{ // Multichannel temperature sensors
    "channel": "1",
    "name": "",
    "temp": "79.9",
    "unit": "F",
    "battery": "2"
}, {
    "channel": "2",
    "name": "",

```

```

        "temp": "79.0",
        "unit": "F",
        "battery": "2"
    }, {
        "channel": "3",
        "name": "",
        "temp": "84.2",
        "unit": "F",
        "battery": "4"
    }, {
        "channel": "4",
        "name": "",
        "temp": "80.2",
        "unit": "F",
        "battery": "1"
    }, {
        "channel": "5",
        "name": "",
        "temp": "77.2",
        "unit": "F",
        "battery": "2"
    }, {
        "channel": "6",
        "name": "",
        "temp": "80.6",
        "unit": "F",
        "battery": "2"
    }, {
        "channel": "7",
        "name": "",
        "temp": "77.5",
        "unit": "F",
        "battery": "2"
    }
  ],

  "ch_leaf": [{ // leaf sensors
    "channel": "1",
    "name": "",
    "humidity": "0%",
    "battery": "5"
  }, {
    "channel": "2",
    "name": "",
    "humidity": "0%",

```

```

        "battery": "3"
    }, {
        "channel": "3",
        "name": "",
        "humidity": "0%",
        "battery": "4"
    }, {
        "channel": "4",
        "name": "",
        "humidity": "0%",
        "battery": "4"
    }
}],

"ch_lds": [{ // LDS sensors
    "channel": "2",
    "name": "",
    "unit": "mm",
    "battery": "5",
    "voltage": "1.50",
    "air": "3044 mm",
    "depth": "955 mm"
},
{
    "channel": "4",
    "name": "",
    "unit": "mm",
    "battery": "5",
    "voltage": "3.16",
    "air": "46 mm",
    "depth": "3953 mm"
}],

"debug": [{
    "heap": "91272",
    "runtime": "3323",
    "usr_interval": "60",
    "is_cnip": true
}],
}

```

2. get_network_info

Request URL: http://10.10.10.106/get_network_info?

Request Method: GET

Status Code: 200 OK

Response1:

```
{
  "mac": "E8:DB:84:0F:15:43",
  "ehtIpType": "1",
  "ethIP": "10.10.10.106",
  "ethMask": "255.255.255.0",
  "ethGateway": "10.10.10.100",
  "ssid": "",
  "wifi_pwd": "",
  "wifi_ip": "0.0.0.0",
  "wifi_mask": "0.0.0.0",
  "wifi_gateway": "0.0.0.0"
}
```

Response2:

```
{
  "mac": "E8:DB:84:0F:15:43",
  "ehtIpType": "0",
  "ethIP": "10.10.10.106",
  "ethMask": "255.255.255.0",
  "ethGateway": "10.10.10.100",
  "ssid": "GW1100A-WIFI38B4",
  "wifi_pwd": "",
  "wifi_ip": "192.168.4.10",
  "wifi_mask": "255.255.255.0",
  "wifi_gateway": "192.168.4.1"
}
```

3. set_network_info

Request URL: http://10.10.10.106/set_network_info

Request Method: POST

Status Code: 200 OK

{ssid: "AX88U", wifi_pwd: "1990325710"}

ssid: "AX88U"

wifi_pwd: "1990325710"

{ehtIpType: "0", ethIP: "10.10.10.106", ethMask: "255.255.255.0", ethGateway:
"10.10.10.100"}

ehtIpType: "0"

ethGateway: "10.10.10.100"

ethIP: "10.10.10.106"

ethMask: "255.255.255.0"

Response:

```
{
```

```
status: "0" = OK, "1" = Error
}
```

4. usr_scan_ssid_list

Request URL: http://10.10.10.106/usr_scan_ssid_list?

Request Method: GET

Status Code: 200 OK

```
{status: "0", msg: "scan ok",...}
```

Response:

```
list: [{ssid: "TP-LINK_DESK", rssi: "3", auth: "4"}, {ssid: "TP-LINK_C172", rssi: "3", auth:
"4"},...]
```

```
msg: "scan ok"
```

```
status: "0"
```

```
{
  "status": "0",
  "msg": "scan ok",
  "list": [{
    "ssid": "TP-LINK_DESK",
    "rssi": "3",
    "auth": "4"
  }, {
    "ssid": "TP-LINK_C172",
    "rssi": "3",
    "auth": "4"
  }, {
    "ssid": "Tenda_69AA90",
    "rssi": "3",
    "auth": "4"
  }, {
    "ssid": "OST_WKL",
    "rssi": "3",
    "auth": "4"
  }, {
    "ssid": "GW1100A-WIFI38B4",
    "rssi": "3",
    "auth": "0"
  }, {
    "ssid": "WN1866B-WIFI6478",
    "rssi": "3",
    "auth": "0"
  }, {
    "ssid": "WH2682B-4G-WIFI2D2D",
    "rssi": "3",
```

```

        "auth": "0"
    }, {
        "ssid": "TP-LINK_D1BE",
        "rssi": "3",
        "auth": "4"
    }, {
        "ssid": "HP10-WIFI1184",
        "rssi": "3",
        "auth": "0"
    }, {
        "ssid": "ZTE MF28851D6",
        "rssi": "3",
        "auth": "3"
    }, {
        "ssid": "GW1100B-WIFIACB9",
        "rssi": "3",
        "auth": "0"
    }, {
        "ssid": "WN1965B-WIFID758",
        "rssi": "3",
        "auth": "0"
    }, {
        "ssid": "EasyWeatherPro-204505",
        "rssi": "3",
        "auth": "0"
    }, {
        "ssid": "cisco-8CBB",
        "rssi": "3",
        "auth": "4"
    }, {
        "ssid": "EasyWeatherPro-A01FAF",
        "rssi": "3",
        "auth": "0"
    }, {
        "ssid": "ChinaNet-ATkQ",
        "rssi": "3",
        "auth": "4"
    }
}

```

5. get_ws_settings

Request URL: http://10.10.10.106/get_ws_settings?

Request Method: GET

Status Code: 200 OK

Response:

```
{ // 2025-04-14 modify by lcg
  "platform": "ecowitt",
  "ost_interval": "1",
  "sta_mac": "94:3C:C6:44:57:A7",
  "wu_interval": "1",
  "wu_id": "",
  "wu_key": "",
  "wcl_interval": "1",
  "wcl_id": "",
  "wcl_key": "",
  "wow_interval": "5",
  "wow_id": "",
  "wow_key": "",
  "Customized": "enable",
  "Protocol": "mqtt",
  "mqtt_name": "lcg",
  "mqtt_host": "47.103.127.54",
  "mqtt_transport": "0",
  "mqtt_port": "1883",
  "mqtt_topic": "ecowitt/943CC64457A7",
  "mqtt_clientid": "gw2000-943CC64457A7",
  "mqtt_username": "system",
  "mqtt_password": "OstLsr198mqtt",
  "mqtt_keepalive": "180",
  "mqtt_interval": "60",
  "ecowitt_path": "/data/report/",
  "ecowitt_port": "80",
  "ecowitt_upload": "60",
  "usr_wu_path": "/weatherstation/updateweatherstation.php?",
  "usr_wu_id": "",
  "usr_wu_key": "",
  "usr_wu_port": "80",
  "usr_wu_upload": "60"
}
old
{
  "platform": "ecowitt",
  "ost_interval": "1",
  "sta_mac": "E8:DB:84:0F:15:43",
  "wu_id": "",
  "wu_key": "",
  "wcl_id": "",
  "wcl_key": ""
}
```

```

    "wow_id": "",
    "wow_key": "",
    "Customized": "disable",
    "Protocol": "ecowitt",
    "ecowitt_ip": "",
    "ecowitt_path": "/data/report/",
    "ecowitt_port": "80",
    "ecowitt_upload": "60",
    "usr_wu_path": "/weatherstation/updateweatherstation.php?",
    "usr_wu_id": "",
    "usr_wu_key": "",
    "usr_wu_port": "80",
    "usr_wu_upload": "60"
}

```

6. set_ws_settings

Request URL: http://10.10.10.106/set_ws_settings

Request Method: POST

Status Code: 200 OK

Customized: Protocol Type Same As "MQTT"

```

{
    "ost_interval": "1",
    "Customized": "enable",
    "Protocol": "mqtt",
    "wu_interval": "16",
    "wcl_interval": "10",
    "wow_interval": "5",
    "wow_id": "",
    "wow_key": "",
    "wu_id": "",
    "wu_key": "",
    "wcl_id": "",
    "wcl_key": "",
    "mqtt_name": "customized",
    "mqtt_host": "47.103.127.54",
    "mqtt_port": "1883",
    "mqtt_clientid": "",
    "mqtt_username": "system",
    "mqtt_password": "OstLsrling198mqtt",
    "mqtt_keepalive": "180",
    "mqtt_interval": "600"
}

```

Customized: Protocol Type Same As "Ecowitt"

```

{

```

```

    "ost_interval": "1",
    "Customized": "enable",
    "Protocol": "ecowitt",
    "wu_interval": "16",
    "wcl_interval": "10",
    "wow_interval": "5",
    "wow_id": "",
    "wow_key": "",
    "wu_id": "",
    "wu_key": "",
    "wcl_id": "",
    "wcl_key": "",
    "ecowitt_ip": "tst.ecowitt.net",
    "ecowitt_path": "/data/report/",
    "ecowitt_port": "80",
    "ecowitt_upload": "60"
}

```

Customized: Disable

```

{
    "ost_interval": "1",
    "Customized": "disable",
    "Protocol": "",
    "wu_interval": "16",
    "wcl_interval": "10",
    "wow_interval": "5",
    "wow_id": "",
    "wow_key": "",
    "wu_id": "",
    "wu_key": "",
    "wcl_id": "",
    "wcl_key": ""
}

```

old

{ost_interval: "1", Customized: "enable", Protocol: "ecowitt",...}

Customized: "enable"

Protocol: "ecowitt"

ecowitt_ip: "tst.ecowitt.net"

ecowitt_path: "/data/report/"

ecowitt_port: "80"

ecowitt_upload: "60"

ost_interval: "1"

wcl_id: "xxxxxxxx"

wcl_key: "xxxxxxxx"

wow_id: "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"

wow_key: "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"

wu_id: "IU5E7FU433"

wu_key: "lsrling198"

7. get_sensors_info

```
enum {
    eWH65_SENSOR = 0,    // Voltage status flag: 1 = low voltage, 0 = normal
    eWH68_SENSOR = 1,    // Voltage = val * 0.02V; low voltage is indicated when voltage <= 1.2V
    eWH80_SENSOR = 2,    // Voltage = 0.02V * val (received value); actual WH80 voltage
    eWH40_SENSOR = 3,    // Voltage = 0.02V * val (received value); actual WH40 voltage
    eWH25_SENSOR = 4,    // Voltage status flag: 1 = low voltage, 0 = normal
    eWH26_SENSOR = 5,    // Voltage status flag: 1 = low voltage, 0 = normal

    eWH31_SENSORCH1 = 6, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH31_SENSORCH2 = 7, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH31_SENSORCH3 = 8, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH31_SENSORCH4 = 9, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH31_SENSORCH5 = 10, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH31_SENSORCH6 = 11, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH31_SENSORCH7 = 12, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH31_SENSORCH8 = 13, // Voltage status flag: 1 = low voltage, 0 = normal

    eWH51_SENSORCH1 = 14, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH51_SENSORCH2 = 15, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH51_SENSORCH3 = 16, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH51_SENSORCH4 = 17, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH51_SENSORCH5 = 18, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH51_SENSORCH6 = 19, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH51_SENSORCH7 = 20, // Voltage status flag: 1 = low voltage, 0 = normal
    eWH51_SENSORCH8 = 21, // Voltage status flag: 1 = low voltage, 0 = normal

    eWH41_SENSORCH1 = 22, // Battery level: 0–5; low voltage is indicated when level <= 1
    eWH41_SENSORCH2 = 23, // Battery level: 0–5; low voltage is indicated when level <= 1
    eWH41_SENSORCH3 = 24, // Battery level: 0–5; low voltage is indicated when level <= 1
    eWH41_SENSORCH4 = 25, // Battery level: 0–5; low voltage is indicated when level <= 1
    // -----
    eWH57_SENSOR = 26,    // Battery level: 0–5; low voltage is indicated when level <= 1
    eWH55_SENSORCH1 = 27, // Battery level: 0–5; low voltage is indicated when level <= 1
    eWH55_SENSORCH2 = 28, // Battery level: 0–5; low voltage is indicated when level <= 1
    eWH55_SENSORCH3 = 29, // Battery level: 0–5; low voltage is indicated when level <= 1
    eWH55_SENSORCH4 = 30, // Battery level: 0–5; low voltage is indicated when level <= 1

    eWH34_SENSORCH1 = 31, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
```

```

1.2V
eWH34_SENSORCH2 = 32, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH34_SENSORCH3 = 33, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH34_SENSORCH4 = 34, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH34_SENSORCH5 = 35, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH34_SENSORCH6 = 36, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH34_SENSORCH7 = 37, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH34_SENSORCH8 = 38 // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V

```

```

eWH45_SENSOR = 39, // Battery level: 0–5

```

```

eWH35_SENSORCH1 = 40, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH35_SENSORCH2 = 41, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH35_SENSORCH3 = 42, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH35_SENSORCH4 = 43, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH35_SENSORCH5 = 44, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH35_SENSORCH6 = 45, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH35_SENSORCH7 = 46, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V
eWH35_SENSORCH8 = 47, // Voltage = val * 0.02V; low voltage is indicated when voltage <=
1.2V

```

```

eWH90_SENSOR = 48, // Voltage = 0.02V * val (received value); actual WH90 voltage
eWH85_SENSOR = 49, // Voltage = 0.02V * val (received value); actual WH85 voltage

```

```

// eWH48_SENSORCH1 = 50, // Not currently used (start)
// eWH48_SENSORCH2 = 51,
// eWH48_SENSORCH3 = 52,
// eWH48_SENSORCH4 = 53,
// eWH48_SENSORCH5 = 54,

```

```

// eWH48_SENSORCH6 = 55,
// eWH48_SENSORCH7 = 56,
// eWH48_SENSORCH8 = 57, // Not currently used (end)

eWH51_SENSORCH9 = 58, // Voltage status flag: 1 = low voltage, 0 = normal
eWH51_SENSORCH10 = 59, // Voltage status flag: 1 = low voltage, 0 = normal
eWH51_SENSORCH11 = 60, // Voltage status flag: 1 = low voltage, 0 = normal
eWH51_SENSORCH12 = 61, // Voltage status flag: 1 = low voltage, 0 = normal
eWH51_SENSORCH13 = 62, // Voltage status flag: 1 = low voltage, 0 = normal
eWH51_SENSORCH14 = 63, // Voltage status flag: 1 = low voltage, 0 = normal
eWH51_SENSORCH15 = 64, // Voltage status flag: 1 = low voltage, 0 = normal
eWH51_SENSORCH16 = 65, // Voltage status flag: 1 = low voltage, 0 = normal

eWH54_SENSORCH1 = 66, // LDS CH1-CH4 voltage = val * 0.02V; low voltage is indicated
when voltage <= 1.2V
eWH54_SENSORCH2 = 67, // LDS CH1-CH4 voltage = val * 0.02V; low voltage is indicated
when voltage <= 1.2V
eWH54_SENSORCH3 = 68, // LDS CH1-CH4 voltage = val * 0.02V; low voltage is indicated
when voltage <= 1.2V
eWH54_SENSORCH4 = 69, // LDS CH1-CH4 voltage = val * 0.02V; low voltage is indicated
when voltage <= 1.2V

eWN20_SENSOR = 70, // Sensor type: eWN20
eWN38_SENSOR = 71 // Sensor type: eWN38

// Add new sensors starting from this position.
// The order of the previous entries must not be changed.
// -----
eMAX_SENSOR,
} sensor_idt_t;

// Defines the sensor ID order table for the generic web version

const uint8_t ecowitt_table[] = {
    eWH85_SENSOR, // 0
    eWH90_SENSOR, // 1
    eWH65_SENSOR, // 2
    eWH68_SENSOR, // 3
    eWH40_SENSOR, // 4

    eWN20_SENSOR, // 5
    eWH25_SENSOR, // 6
    eWH26_SENSOR, // 7
    eWN38_SENSOR, // +1

```

```

eWH80_SENSOR, // 8
eWH57_SENSOR, // 9
eWH45_SENSOR, // 10

eWH41_SENSORCH1, // 11
eWH41_SENSORCH2, // 12
eWH41_SENSORCH3, // 13
eWH41_SENSORCH4, // 14
eWH55_SENSORCH1, // 15
eWH55_SENSORCH2, // 16
eWH55_SENSORCH3, // 17
eWH55_SENSORCH4, // 18

eWH31_SENSORCH1, // 19
eWH31_SENSORCH2, // 20
eWH31_SENSORCH3, // 21
eWH31_SENSORCH4, // 22
eWH31_SENSORCH5, // 23
eWH31_SENSORCH6, // 24
eWH31_SENSORCH7, // 25
eWH31_SENSORCH8, // 26

eWH54_SENSORCH1, // 27 // Voltage = val * 0.02V; low voltage is indicated when
voltage <= 1.2V
eWH54_SENSORCH2, // 28
eWH54_SENSORCH3, // 29
eWH54_SENSORCH4, // 30

eWH51_SENSORCH1, // 31
eWH51_SENSORCH2, // 32
eWH51_SENSORCH3, // 33
eWH51_SENSORCH4, // 34
eWH51_SENSORCH5, // 35
eWH51_SENSORCH6, // 36
eWH51_SENSORCH7, // 37
eWH51_SENSORCH8, // 38
eWH51_SENSORCH9, // 39
eWH51_SENSORCH10, // 40
eWH51_SENSORCH11, // 41
eWH51_SENSORCH12, // 42
eWH51_SENSORCH13, // 43
eWH51_SENSORCH14, // 44
eWH51_SENSORCH15, // 45
eWH51_SENSORCH16, // 46

```

```

eWH34_SENSORCH1, // 47
eWH34_SENSORCH2, // 48
eWH34_SENSORCH3, // 49
eWH34_SENSORCH4, // 50
eWH34_SENSORCH5, // 51
eWH34_SENSORCH6, // 52
eWH34_SENSORCH7, // 53
eWH34_SENSORCH8, // 54

eWH35_SENSORCH1, // 55
eWH35_SENSORCH2, // 56
eWH35_SENSORCH3, // 57
eWH35_SENSORCH4, // 58
eWH35_SENSORCH5, // 59
eWH35_SENSORCH6, // 60
eWH35_SENSORCH7, // 61
eWH35_SENSORCH8, // 62 + 1

// New sensors must be appended starting from this point.
// Do not modify the order of the existing sensor definitions.
};

const char *name_sensors[] = {
    "Wind & Rain", // eWH85_SENSOR,
    "Temp & Humidity & Solar & Wind & Rain", // eWH90_SENSOR,
    "Temp & Humidity & Solar & Wind & Rain", // eWH65_SENSOR,
    "Solar & Wind", // eWH68_SENSOR,
    "Rain", // eWH40_SENSOR,

    "Temp & Humidity & Pressure", // eWH25_SENSOR,
    "Temp & Humidity", // eWH26_SENSOR,
    "BGT", // eWN38_SENSOR
    "Temp & Humidity & Solar & Wind", // eWH80_SENSOR,
    "Lightning", // eWH57_SENSOR,
    "PM25 & PM10 & CO2", // eWH45_SENSOR,

    "PM2.5 CH1", // eWH41_SENSOR,
    "PM2.5 CH2",
    "PM2.5 CH3",
    "PM2.5 CH4",

    "Leak CH1", // eWH55_SENSOR,
    "Leak CH2",

```

"Leak CH3",
 "Leak CH4",

 "Temp & Humidity CH1", // eWH31_SENSOR,
 "Temp & Humidity CH2",
 "Temp & Humidity CH3",
 "Temp & Humidity CH4",
 "Temp & Humidity CH5",
 "Temp & Humidity CH6",
 "Temp & Humidity CH7",
 "Temp & Humidity CH8",

 "Lds CH1",
 "Lds CH2",
 "Lds CH3",
 "Lds CH4",

 "Soil moisture CH1", // eWH31_SENSOR,
 "Soil moisture CH2",
 "Soil moisture CH3",
 "Soil moisture CH4",
 "Soil moisture CH5",
 "Soil moisture CH6",
 "Soil moisture CH7",
 "Soil moisture CH8",

 "Soil moisture CH9", // eWH51_SENSOR,
 "Soil moisture CH10",
 "Soil moisture CH11",
 "Soil moisture CH12",
 "Soil moisture CH13",
 "Soil moisture CH14",
 "Soil moisture CH15",
 "Soil moisture CH16",

 "Temp CH1", // eWH34_SENSOR,
 "Temp CH2",
 "Temp CH3",
 "Temp CH4",
 "Temp CH5",
 "Temp CH6",
 "Temp CH7",
 "Temp CH8",

```
"Leaf Wetness CH1", // eWH35_SENSOR,  
"Leaf Wetness CH2",  
"Leaf Wetness CH3",  
"Leaf Wetness CH4",  
"Leaf Wetness CH5",  
"Leaf Wetness CH6",  
"Leaf Wetness CH7",  
"Leaf Wetness CH8",
```

```
};
```

Request URL: http://10.10.10.106/get_sensors_info?page=1?

Request Method: GET

Status Code: 200 OK

Responses:

```
[  
  {  
    "img": "wh85",  
    "type": "49",  
    "name": "Wind & Rain",  
    "version": "107",  
    "id": "2778",  
    "batt": "5",  
    "signal": "2",  
    "idst": "1"  
  },  
  {  
    "img": "wh90",  
    "type": "48",  
    "name": "Temp & Humidity & Solar & Wind & Rain",  
    "version": "148",  
    "id": "2B94",  
    "batt": "4",  
    "signal": "1",  
    "idst": "1"  
  },  
  {  
    "img": "wh69",  
    "type": "0",  
    "name": "Temp & Humidity & Solar & Wind & Rain",  
    "id": "E8",  
    "batt": "0",  
    "signal": "2",  
    "idst": "1"  
  },  
]
```

```

{
  "img": "wh68",
  "type": "1",
  "name": "Solar & Wind",
  "id": "82D",
  "batt": "1",
  "signal": "1",
  "idst": "1"
},
{
  "img": "wh40",
  "type": "3",
  "name": "Rain",
  "id": "C498",
  "batt": "5",
  "signal": "4",
  "idst": "1"
},
{
  "img": "wh25",
  "type": "4",
  "name": "Temp & Humidity & Pressure",
  "id": "FFFFFFFE",// "FFFFFFFE": Disable
  "batt": "9",
  "signal": "0",
  "idst": "0"
},
{
  "img": "wh26",
  "type": "5",
  "name": "Temp & Humidity",
  "id": "E8",
  "batt": "0",
  "signal": "4",
  "idst": "1"
},
{
  "img": "wh80",
  "type": "2",
  "name": "Temp & Humidity & Solar & Wind",
  "id": "68C2",
  "batt": "9",
  "signal": "0",
  "idst": "1"
}

```

```

    },
    {
        "img": "wh57",
        "type": "26",
        "name": "Lightning",
        "id": "C497",
        "batt": "5",
        "signal": "3",
        "idst": "1"
    },
    {
        "img": "wh45",
        "type": "39",
        "name": "PM25 & PM10 & CO2",
        "id": "48F6",
        "batt": "6",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh41",
        "type": "22",
        "name": "PM2.5 CH1",
        "id": "A4",
        "batt": "5",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh41",
        "type": "23",
        "name": "PM2.5 CH2",
        "id": "B8",
        "batt": "9",
        "signal": "0",
        "idst": "1"
    },
    {
        "img": "wh41",
        "type": "24",
        "name": "PM2.5 CH3",
        "id": "FFFFFFFF",
        "batt": "9",
        "signal": "0",
    }

```

```

      "idst": "1"
    },
    {
      "img": "wh41",
      "type": "25",
      "name": "PM2.5 CH4",
      "id": "FFFFFFFF",
      "batt": "9",
      "signal": "0",
      "idst": "1"
    },
    {
      "img": "wh55",
      "type": "27",
      "name": "Leak CH1",
      "id": "FFFFFFFF",
      "batt": "9",
      "signal": "0",
      "idst": "1"
    },
    {
      "img": "wh55",
      "type": "28",
      "name": "Leak CH2",
      "id": "10C49D",
      "batt": "3",
      "signal": "0",
      "idst": "1"
    },
    {
      "img": "wh55",
      "type": "29",
      "name": "Leak CH3",
      "id": "20C496",
      "batt": "3",
      "signal": "1",
      "idst": "1"
    },
    {
      "img": "wh55",
      "type": "30",
      "name": "Leak CH4",
      "id": "FFFFFFFF",
      "batt": "9",

```

```

        "signal": "0",
        "idst": "1"
    },
    {
        "img": "wh31",
        "type": "6",
        "name": "Temp & Humidity CH1",
        "id": "99",
        "batt": "0",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh31",
        "type": "7",
        "name": "Temp & Humidity CH2",
        "id": "78",
        "batt": "0",
        "signal": "1",
        "idst": "1"
    },
    {
        "img": "wh31",
        "type": "8",
        "name": "Temp & Humidity CH3",
        "id": "AF",
        "batt": "0",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh31",
        "type": "9",
        "name": "Temp & Humidity CH4",
        "id": "E5",
        "batt": "1",
        "signal": "1",
        "idst": "1"
    },
    {
        "img": "wh31",
        "type": "10",
        "name": "Temp & Humidity CH5",
        "id": "BD",

```

```

        "batt": "0",
        "signal": "1",
        "idst": "1"
    },
    {
        "img": "wh31",
        "type": "11",
        "name": "Temp & Humidity CH6",
        "id": "FFFFFFFF", // "FFFFFFFF": Indicates that the sensor has not been
received                               // "FFFFFFFE": Disable
        "batt": "9",
        "signal": "0",
        "idst": "1"
    },
    {
        "img": "wh31",
        "type": "12",
        "name": "Temp & Humidity CH7",
        "id": "19",
        "batt": "0",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh31",
        "type": "13",
        "name": "Temp & Humidity CH8",
        "id": "49",
        "batt": "0",
        "signal": "0",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "14",
        "name": "Soil moisture CH1",
        "id": "C67F",
        "batt": "5",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "15",

```

```

        "name": "Soil moisture CH2",
        "id": "C4AA",
        "batt": "4",
        "signal": "1",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "16",
        "name": "Soil moisture CH3",
        "id": "C4BC",
        "batt": "4",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "17",
        "name": "Soil moisture CH4",
        "id": "C680",
        "batt": "5",
        "signal": "2",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "18",
        "name": "Soil moisture CH5",
        "id": "C67B",
        "batt": "1",
        "signal": "3",
        "idst": "1"
    }
]

```

Request URL: http://10.10.10.106/get_sensors_info?page=2?

Request Method: GET

Status Code: 200 OK

Response:

```

[
    {
        "img": "wh51",
        "type": "19",
        "name": "Soil moisture CH6",

```

```

        "id": "C671",
        "batt": "5",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "20",
        "name": "Soil moisture CH7",
        "id": "C4B3",
        "batt": "4",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "21",
        "name": "Soil moisture CH8",
        "id": "C684",
        "batt": "4",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "58",
        "name": "Soil moisture CH9",
        "id": "C683",
        "batt": "5",
        "signal": "0",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "59",
        "name": "Soil moisture CH10",
        "id": "C681",
        "batt": "4",
        "signal": "2",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "60",

```

```

        "name": "Soil moisture CH11",
        "id": "C689",
        "batt": "2",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "61",
        "name": "Soil moisture CH12",
        "id": "C4C6",
        "batt": "5",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "62",
        "name": "Soil moisture CH13",
        "id": "C68E",
        "batt": "5",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "63",
        "name": "Soil moisture CH14",
        "id": "C690",
        "batt": "2",
        "signal": "1",
        "idst": "1"
    },
    {
        "img": "wh51",
        "type": "64",
        "name": "Soil moisture CH15",
        "id": "C68B",
        "batt": "5",
        "signal": "0",
        "idst": "1"
    },
    {
        "img": "wh51",

```

```

        "type": "65",
        "name": "Soil moisture CH16",
        "id": "C4AA",
        "batt": "9",
        "signal": "0",
        "idst": "1"
    },
    {
        "img": "wh34",
        "type": "31",
        "name": "Temp CH1",
        "id": "2C95",
        "batt": "5",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh34",
        "type": "32",
        "name": "Temp CH2",
        "id": "6496",
        "batt": "4",
        "signal": "4",
        "idst": "1"
    },
    {
        "img": "wh34",
        "type": "33",
        "name": "Temp CH3",
        "id": "0",
        "batt": "3",
        "signal": "3",
        "idst": "1"
    },
    {
        "img": "wh34",
        "type": "34",
        "name": "Temp CH4",
        "id": "FFFFFFFF",
        "batt": "9",
        "signal": "0",
        "idst": "1"
    },
    {

```

```

    "img": "wh34",
    "type": "35",
    "name": "Temp CH5",
    "id": "FFFFFFFF",
    "batt": "9",
    "signal": "0",
    "idst": "1"
  },
  {
    "img": "wh34",
    "type": "36",
    "name": "Temp CH6",
    "id": "FFFFFFFF",
    "batt": "9",
    "signal": "0",
    "idst": "1"
  },
  {
    "img": "wh34",
    "type": "37",
    "name": "Temp CH7",
    "id": "FFFFFFFF",
    "batt": "9",
    "signal": "0",
    "idst": "1"
  },
  {
    "img": "wh34",
    "type": "38",
    "name": "Temp CH8",
    "id": "FFFFFFFF",
    "batt": "9",
    "signal": "0",
    "idst": "1"
  },
  {
    "img": "wh35",
    "type": "40",
    "name": "Leaf Wetness CH1",
    "id": "300C",
    "batt": "5",
    "signal": "4",
    "idst": "1"
  },

```

```

{
  "img": "wh35",
  "type": "41",
  "name": "Leaf Wetness CH2",
  "id": "2ADC",
  "batt": "3",
  "signal": "3",
  "idst": "1"
},
{
  "img": "wh35",
  "type": "42",
  "name": "Leaf Wetness CH3",
  "id": "3016",
  "batt": "3",
  "signal": "2",
  "idst": "1"
},
{
  "img": "wh35",
  "type": "43",
  "name": "Leaf Wetness CH4",
  "id": "FFFFFFFF",
  "batt": "9",
  "signal": "0",
  "idst": "1"
},
{
  "img": "wh35",
  "type": "44",
  "name": "Leaf Wetness CH5",
  "id": "FFFFFFFF",
  "batt": "9",
  "signal": "0",
  "idst": "1"
},
{
  "img": "wh35",
  "type": "45",
  "name": "Leaf Wetness CH6",
  "id": "FFFFFFFF",
  "batt": "9",
  "signal": "0",
  "idst": "1"
}

```

```

    },
    {
      "img": "wh35",
      "type": "46",
      "name": "Leaf Wetness CH7",
      "id": "FFFFFFFF",
      "batt": "9",
      "signal": "0",
      "idst": "1"
    },
    {
      "img": "wh35",
      "type": "47",
      "name": "Leaf Wetness CH8",
      "id": "FFFFFFFF",
      "batt": "9",
      "signal": "0",
      "idst": "1"
    },
    {
      "img": "wh54",
      "type": "66",
      "name": "Lds CH1",
      "id": "270D",
      "batt": "5",
      "signal": "4",
      "idst": "1"
    },
    {
      "img": "wh54",
      "type": "67",
      "name": "Lds CH2",
      "id": "2705",
      "batt": "9",
      "signal": "0",
      "idst": "1"
    },
    {
      "img": "wh54",
      "type": "68",
      "name": "Lds CH3",
      "id": "0",
      "batt": "9",
      "signal": "0",

```

```

        "idst": "1"
    },
    {
        "img": "wh54",
        "type": "69",
        "name": "Lds CH4",
        "id": "270F",
        "batt": "9",
        "signal": "0",
        "idst": "1"
    }
]

```

8. set_sensors_info

Id = 0xFFFFFFFF : re-register.

Id = 0xFFFFFFFFE : disable.

1) Re-register

Request URL: http://10.10.10.106/set_sensors_info

Request Method: POST

Status Code: 200 OK

```

{type: "48", id: "0xFFFFFFFF"}
  id: "0xFFFFFFFF"
  type: "48"

```

Response: 200 OK

2) Edit sensors id for setting.

Request URL: http://10.10.10.106/set_sensors_info

Request Method: POST

Status Code: 200 OK

```

{type: "2", id: "0x2002B"}
  id: "0x2002B"
  type: "2"

```

Response: 200 OK

9. get_rain_totals

Request URL: http://10.10.10.106/get_rain_totals?

Request Method: GET

Status Code: 200 OK

```

{
  "rainFallPriority": "2",
  "list": [{

```

```

    "gauge": "No rain gauge",
    "value": "0"
  }, {
    "gauge": "Traditional rain gauge",
    "value": "1"
  }, {
    "gauge": "Piezoelectric rain gauge",
    "value": "2"
  }
],
  "rainDay": "0.0",
  "rainWeek": "0.0",
  "rainMonth": "0.0",
  "rainYear": "0.0",
  "rainGain": "1.00",
  "rstRainDay": "0",
  "rstRainWeek": "0",
  "rstRainYear": "0",
  "piezo": "1"
}

```

10. get_piezo_rain

Request URL: http://10.10.10.106/get_piezo_rain?

Request Method: GET

Status Code: 200 OK

```

{
  "drain_piezo": "0.0",
  "wrain_piezo": "0.0",
  "mrain_piezo": "0.0",
  "yrain_piezo": "0.0",
  "rain1_gain": "1.00",
  "rain2_gain": "1.00",
  "rain3_gain": "1.00",
  "rain4_gain": "1.00",
  "rain5_gain": "1.00"
}

```

11. set_rain_totals

Request URL: http://10.10.10.106/set_rain_totals

Request Method: POST

Status Code: 200 OK

```

{rainDay: "1.0", rainWeek: "1.0", rainMonth: "1.0", rainYear: "1.0", rainGain: "1.00",...}
  rainDay: "1.0"
  rainFallPriority: "2"
  rainGain: "1.00"

```

```
rainMonth: "1.0"
rainWeek: "1.0"
rainYear: "1.0"
rstRainDay: "0"
rstRainWeek: "0"
rstRainYear: "0"
```

12. set_piezo_rain

Request URL: http://10.10.10.106/set_piezo_rain
Request Method: POST
Status Code: 200 OK

```
{drain_piezo: "2.0", wrain_piezo: "2.0", mrain_piezo: "2.0", yrain_piezo: "2.0", rain1_gain:
"1.00",...}
```

```
drain_piezo: "2.0"
mrain_piezo: "2.0"
rain1_gain: "1.00"
rain2_gain: "1.00"
rain3_gain: "1.00"
rain4_gain: "1.00"
rain5_gain: "1.00"
wrain_piezo: "2.0"
yrain_piezo: "2.0"
```

13. get_calibration_data

Before V2.1.4 get_calibraion_data

Request URL: http://10.10.10.106/get_calibration_data?
Request Method: GET
Status Code: 200 OK

Response:

```
{
  "SolarRadWave": "126.7",
  "solarRadGain": "1.00",
  "uvGain": "1.00",
  "windGain": "1.00",
  "inTempOffset": "0.0",
  "inHumiOffset": "0",
  "absOffset": "0.0",
  "relOffset": "0.0",
  "outTempOffset": "0.0",
  "outHumiOffset": "0",
  "windDirOffset": "0",
  "th_cli": true,
```

```

        "pm25_cli": true,
        "soil_cli": true,
        "co2_cli": true
    }

```

14. set_calibration_data

Before V2.1.4 set_calibraion_data

Request URL: http://10.10.10.106/set_calibraion_data

Request Method: POST

Status Code: 200 OK

```

    {solarRadGain: "1.00", uvGain: "1.00", windGain: "1.00", inTempOffset: "0.0",
inHumiOffset: "0",...}
    absOffset: "0.0"
    inHumiOffset: "0"
    inTempOffset: "0.0"
    outHumiOffset: "0"
    outTempOffset: "0.0"
    relOffset: "0.0"
    solarRadGain: "1.00"
    uvGain: "1.00"
    windDirOffset: "0"
    windGain: "1.00"

```

15. get_cli_soilad :

Request URL: http://10.10.10.106/get_cli_soilad?

Request Method: GET

Status Code: 200 OK

```

[ {
    "id": "0x80C521",
    "ch": "1",
    "name": "",
    "soilVal": "0",
    "nowAd": "160",
    "minVal": "170",
    "maxVal": "320",
    "checked": false
}, {
    "id": "0x80C517",
    "ch": "2",
    "name": "",
    "soilVal": "0",
    "nowAd": "166",

```

```

    "minVal": "170",
    "maxVal": "320",
    "checked": false
  }, {
    "id": "0xC4BC",
    "ch": "3",
    "name": "",
    "soilVal": "0",
    "nowAd": "20",
    "minVal": "170",
    "maxVal": "320",
    "checked": false
  }, {
    "id": "0xC561",
    "ch": "4",
    "name": "",
    "soilVal": "3",
    "nowAd": "175",
    "minVal": "170",
    "maxVal": "320",
    "checked": false
  }, {
    "id": "0x80C552",
    "ch": "5",
    "name": "",
    "soilVal": "0",
    "nowAd": "168",
    "minVal": "170",
    "maxVal": "320",
    "checked": false
  }, {
    "id": "0xC4B5",
    "ch": "6",
    "name": "",
    "soilVal": "0",
    "nowAd": "26",
    "minVal": "170",
    "maxVal": "320",
    "checked": false
  }, {
    "id": "0xC4A7",
    "ch": "7",
    "name": "",
    "soilVal": "0",

```

```

        "nowAd":    "8",
        "minVal":  "170",
        "maxVal":   "320",
        "checked":  false
    }, {
        "id": "0x80C553",
        "ch":  "8",
        "name": "",
        "soilVal": "0",
        "nowAd":   "167",
        "minVal":  "170",
        "maxVal":   "320",
        "checked":  false
    }
}]

```

16. set_cli_soilad

Request URL: http://10.10.10.106/set_cli_soilad

Request Method: POST

Status Code: 200 OK

```
[{id: "0x80C521", ch: "1", name: "", soilVal: "0", nowAd: "160", minVal: "200", maxVal:
"300",...},...]
```

```
0: {id: "0x80C521", ch: "1", name: "", soilVal: "0", nowAd: "160", minVal: "200", maxVal:
"300",...}
```

```
  ch: "1"
```

```
  checked: true
```

```
  id: "0x80C521"
```

```
  maxVal: "300"
```

```
  minVal: "200"
```

```
  name: ""
```

```
  nowAd: "160"
```

```
  soilVal: "0"
```

```
1: {id: "0x80C517", ch: "2", name: "", soilVal: "0", nowAd: "166", minVal: "170", maxVal:
"320",...}
```

```
  ch: "2"
```

```
  checked: false
```

```
  id: "0x80C517"
```

```
  maxVal: "320"
```

```
  minVal: "170"
```

```
  name: ""
```

```
  nowAd: "166"
```

```
  soilVal: "0"
```

```
2: {id: "0xC4BC", ch: "3", name: "", soilVal: "0", nowAd: "20", minVal: "170", maxVal:
"320",...}
```

```
  ch: "3"
```

```

checked: false
id: "0xC4BC"
maxVal: "320"
minVal: "170"
name: ""
nowAd: "20"
soilVal: "0"
3: {id: "0xC561", ch: "4", name: "", soilVal: "3", nowAd: "175", minVal: "170", maxVal:
"320",...}
  ch: "4"
  checked: false
  id: "0xC561"
  maxVal: "320"
  minVal: "170"
  name: ""
  nowAd: "175"
  soilVal: "3"
4: {id: "0x80C552", ch: "5", name: "", soilVal: "0", nowAd: "168", minVal: "170", maxVal:
"320",...}
  ch: "5"
  checked: false
  id: "0x80C552"
  maxVal: "320"
  minVal: "170"
  name: ""
  nowAd: "168"
  soilVal: "0"
5: {id: "0xC4B5", ch: "6", name: "", soilVal: "0", nowAd: "26", minVal: "170", maxVal:
"320",...}
  ch: "6"
  checked: false
  id: "0xC4B5"
  maxVal: "320"
  minVal: "170"
  name: ""
  nowAd: "26"
  soilVal: "0"
6: {id: "0xC4A7", ch: "7", name: "", soilVal: "0", nowAd: "8", minVal: "170", maxVal:
"320",...}
  ch: "7"
  checked: false
  id: "0xC4A7"
  maxVal: "320"
  minVal: "170"

```

```

    name: ""
    nowAd: "8"
    soilVal: "0"
7: {id: "0x80C553", ch: "8", name: "", soilVal: "0", nowAd: "167", minVal: "170", maxVal:
"320",...}
    ch: "8"
    checked: false
    id: "0x80C553"
    maxVal: "320"
    minVal: "170"
    name: ""
    nowAd: "167"
    soilVal: "0"

```

17. get_cli_multiCh

Request URL: http://10.10.10.106/get_cli_multiCh?

Request Method: GET

Status Code: 200 OK

Responses:

```

[ {
  "id": "0x49",
  "name": "",
  "channel": "1",
  "temp": "0.0",
  "humi": "0"
}, {
  "id": "0x7A",
  "name": "",
  "channel": "2",
  "temp": "0.0",
  "humi": "0"
}, {
  "id": "0xA0",
  "name": "",
  "channel": "3",
  "temp": "0.0",
  "humi": "0"
}, {
  "id": "0xE5",
  "name": "",
  "channel": "4",
  "temp": "0.0",
  "humi": "0"
}

```

```

}, {
  "id": "0xD2",
  "name": "",
  "channel": "5",
  "temp": "0.0",
  "humi": "0"
}, {
  "id": "0x8E",
  "name": "",
  "channel": "6",
  "temp": "0.0",
  "humi": "0"
}, {
  "id": "0x19",
  "name": "",
  "channel": "7",
  "temp": "0.0",
  "humi": "0"
}, {
  "id": "0x17",
  "name": "",
  "channel": "8",
  "temp": "0.0",
  "humi": "0"
}]

```

18. set_cli_multiCh

Request URL: http://10.10.10.106/set_cli_multiCh

Request Method: POST

Status Code: 200 OK

```
[{id: "0x49", name: "", channel: "1", temp: "1.0", humi: "1"},...]
```

```
0: {id: "0x49", name: "", channel: "1", temp: "1.0", humi: "1"}
```

```
  channel: "1"
```

```
  humi: "1"
```

```
  id: "0x49"
```

```
  name: ""
```

```
  temp: "1.0"
```

```
1: {id: "0x7A", name: "", channel: "2", temp: "0.0", humi: "0"}
```

```
  channel: "2"
```

```
  humi: "0"
```

```
  id: "0x7A"
```

```
  name: ""
```

```
  temp: "0.0"
```

```

2: {id: "0xA0", name: "", channel: "3", temp: "0.0", humi: "0"}
  channel: "3"
  humi: "0"
  id: "0xA0"
  name: ""
  temp: "0.0"
3: {id: "0xE5", name: "", channel: "4", temp: "0.0", humi: "0"}
  channel: "4"
  humi: "0"
  id: "0xE5"
  name: ""
  temp: "0.0"
4: {id: "0xD2", name: "", channel: "5", temp: "0.0", humi: "0"}
  channel: "5"
  humi: "0"
  id: "0xD2"
  name: ""
  temp: "0.0"
5: {id: "0x8E", name: "", channel: "6", temp: "0.0", humi: "0"}
  channel: "6"
  humi: "0"
  id: "0x8E"
  name: ""
  temp: "0.0"
6: {id: "0x19", name: "", channel: "7", temp: "0.0", humi: "0"}
  channel: "7"
  humi: "0"
  id: "0x19"
  name: ""
  temp: "0.0"
7: {id: "0x17", name: "", channel: "8", temp: "0.0", humi: "0"}
  channel: "8"
  humi: "0"
  id: "0x17"
  name: ""
  temp: "0.0"

```

19. get_cli_pm25

Request URL: http://10.10.10.106/get_cli_pm25?

Request Method: GET

Status Code: 200 OK

Responses:

```
[{
```

```

        "id": "0xC4AD",
        "name": "",
        "channel": "1",
        "val": "1.0"
    }, {
        "id": "0xA4",
        "name": "",
        "channel": "2",
        "val": "0.0"
    }
}]

```

20. set_cli_pm25

Request URL: http://10.10.10.106/set_cli_pm25?

Request Method: POST

Status Code: 200 OK

```

[{"id": "0xC4AD", "name": "", "channel": "1", "val": "1.0"},
 {"id": "0xA4", "name": "", "channel": "2", "val": "0.0"}]
0: {"id": "0xC4AD", "name": "", "channel": "1", "val": "1.0"}
   channel: "1"
   id: "0xC4AD"
   name: ""
   val: "1.0"
1: {"id": "0xA4", "name": "", "channel": "2", "val": "0.0"}
   channel: "2"
   id: "0xA4"
   name: ""
   val: "0.0"

```

21. get_cli_co2

Request URL: http://10.10.10.106/set_cli_co2

Request Method: GET

Status Code: 200 OK

Response:

```

{
    "co2": "0",
    "pm25": "0.0",
    "pm10": "0.0"
}

```

22. set_cli_co2

Request URL: http://10.10.10.106/set_cli_co2

Request Method: POST

Status Code: 200 OK

```
{co2: "1", pm25: "1.0", pm10: "0.0"}
  co2: "1"
  pm10: "0.0"
  pm25: "1.0"
```

23. get_units_info

Request URL: http://10.10.10.106/get_units_info?

Request Method: GET

Status Code: 200 OK

Response:

```
{
  "temperature": "1",
  "pressure": "0",
  "wind": "1",
  "rain": "0",
  "light": "1"
}
```

24. set_units_info

Request URL: http://10.10.10.106/set_units_info

Request Method: POST

Status Code: 200 OK

```
{temperature: "0", pressure: "0", wind: "2", rain: "1", light: "1"}
  light: "1"
  pressure: "0"
  rain: "1"
  temperature: "0"
  wind: "2"
```

25. get_device_info

Request URL: http://10.10.10.106/get_device_info?

Request Method: GET

Status Code: 200 OK

Response:

```
{
  "sensorType": "1",
  "rf_freq": "2",
  "tz_auto": "0",
  "tz_name": "",
  "tz_index": "19",
  "dst_stat": "1",
}
```

```

    "date": "2022-04-25T18:56",
    "upgrade": "0",
    "apAuto": "1",
    "newVersion": "0",
    "curr_msg": "Current version:V2.1.4\r\n",
    "apName": "GW2000B-WIFI1543",
    "GW1100APpwd": "",
    "time": "20"
}

```

26. set_device_info

Request URL: http://10.10.10.106/set_device_info

Request Method: POST

Status Code: 200 OK

```

{sensorType: "1", tz_index: "19", dst_stat: "1", upgrade: "0", tz_auto: "0", apAuto: "1"}
  apAuto: "1"
  dst_stat: "1"
  sensorType: "1"
  tz_auto: "0"
  tz_index: "19"
  upgrade: "0"

```

27. upgrade_process

Request URL: http://10.10.10.106/upgrade_process

Request Method: POST

Status Code: 200 OK

```
{upgrade: "check"}
```

upgrade: "check"

Response:

```

{
  "is_new": false,
  "msg": "Current version:V2.1.4\r\n"
}

```

Or

```

{
  "is_new": true,
  "msg": "New Version:V2.1.4.1\r\n1.SDK upgrade from IDF-V3.3.4 to IDF-V4.4."
}

```

28. Reboot

Request URL: http://10.10.10.106/set_device_info

Request Method: POST

Status Code: 200 OK

{sysreboot: 1}

sysreboot: 1

29. Restore Default

Request URL: http://10.10.10.106/set_device_info

Request Method: POST

Status Code: 200 OK

{sysrestore: 1}

sysrestore: 1

30. Get_version

Request URL: http://10.10.10.106/get_version?

Request Method: GET

Status Code: 200 OK

Response:

```
{
  "version":    "Version: GW2000B_V2.1.4",
  "newVersion": "1",
  "platform":   "ecowitt"
}
```

31. Get_cli_lds

Request URL: http://10.10.10.106/get_cli_lds?

Request Method: GET

Status Code: 200 OK

Response:

```
[
  // 2025-04-14
  {
    "id": "0x1234",
    "ch": "2",
    "name": "",
    "unit": "mm",
    "offset": "0",
    "total_height": "3999",
    "total_heat": "57702",    //Heater-on Counter
    "level": "4"             //Data Filter Factor
  },
]
```

```

    {
      "id": "0x29CC",
      "ch": "4",
      "name": "",
      "unit": "mm",
      "offset": "0",
      "total_height": "3999",
      "total_heat": "43",          //Heater-on Counter
      "level": "4"                //Data Filter Factor
    }
  ],
  old
  [
    {
      "id": "0x270D",
      "ch": "1",
      "name": "",
      "unit": "mm",
      "offset": "0",
      "total_height": "0"
    },
    {
      "id": "0x2706",
      "ch": "2",
      "name": "",
      "unit": "mm",
      "offset": "0",
      "total_height": "0"
    }
  ],

```

32. Set_cli_lds

Request URL: http://10.10.10.106/set_cli_lds

Request Method: POST

Status Code: 200 OK

```

[
  {
    "id": "0x1234",
    "ch": "2",
    "name": "",
    "unit": "mm",
    "offset": "0",
    "total_height": "3999",
    "total_heat": "57702",

```

```

        "level": "4"
    },
    {
        "id": "0x29CC",
        "ch": "4",
        "name": "",
        "unit": "mm",
        "offset": "0",
        "total_height": "3999",
        "total_heat": "43",
        "level": "4"
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]
old
[
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        "ch": "1",
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        "ch": "2",
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