

Energy monitor: API

url, methods, parameters

Version 2.1 / 11.06.2020

API url

<https://ip-address/json/API.php/{Method}?{Parameter=}&..>

test function:

https://ip-address/json/Test_json.php

Methods

getMeters

Returns the list of meters.
- no parameters

Returns (Example):

```
{ "Version": "2.1", "status": "o.k.", "result": [{"meterId": "76", "type": "power",
"uuid": "b6ae8c20-683c-01e5-0000-0000fe8a7823", "cpu_id": "00000000176b51cc", "parameter":
[{"type": 5, "name": "type", "value": "power", "val_standard": "", "val_max": "", "val_min": "", "check": true, "check_message": ""},
{"type": 0, "name": "title", "value": "Wasser", "val_standard": "title", "val_max": "", "val_min": "", "check": true, "check_message": ""},
{"type": 1, "name": "description", "value": "Kanal 01", "val_standard": "", "val_max": "", "val_min": "", "check": true, "check_message": ""},
{"type": 1, "name": "location", "value": "Keller", "val_standard": "", "val_max": "", "val_min": "", "check": true, "check_message": ""},
{"type": 3, "name": "intervall", "value": "60", "val_standard": 300, "val_max": 86000, "val_min": 30, "check": true, "check_message": ""},
{"type": 2, "name": "cost", "value": "0.00027", "val_standard": 0.0027, "val_max": 1, "val_min": 1.0e-5, "check": true, "check_message": ""},
{"type": 1, "name": "uidserver", "value": "", "val_standard": "", "val_max": "", "val_min": "", "check": true, "check_message": ""},
{"type": 1, "name": "urlserver", "value": "", "val_standard": "", "val_max": "", "val_min": "", "check": true, "check_message": ""},
{"type": 5, "name": "smartme", "value": "ON", "val_standard": "", "val_max": "ON", "val_min": "", "check": true, "check_message": ""}]}]}
```

getDay

Returns the power values for a particular day.

Parameter	Description
meterId	Id of the meter as provided by getMeters
day	The day in the month from 1 to 28...31
month	The month from 1 to 12
year	The year (e.g. 2012)

Returns (Example):

```
{{"Version": "2.1", "status": "o.k.", "result": [{"power": 50.022956848145, "timeEnd": "1493736810", "unit": "Hz"}, {"power": 50.024360656738, "timeEnd": "1493737090", "unit": "Hz"}, ...]}
```

getLive

Returns the last measurements captured by the meter

Parameter	Description
meterId	Id of the meter as provided by getMeters

Returns (Example):

```
{{"Version": "2.1", "status": "o.k.", "result": [{"counter": 0.007, "ID": 76, "title": "Bezug", "type": "power", "unit": "W", "timeEnd": "1542984480000", "power": 210}]}}
```

getReading

Return the total consumption or production for a meter.

Parameter	Description
meterId	Id of the meter as provided by getMeters

Returns (Example):

```
{{"Version": "2.1", "status": "o.k.", "result": [{"title": "Bezug", "counter": 3476.572, "timeEnd": "1542984600000", "type": "power", "unit": "kWh"}]}}
```

getConsumption

Return the consumption or production for a meter concerning a time window.

Parameter	Description
meterId	Id of the meter as provided by getMeters
timestart	eg. 2019-07-20 12:00:00
timeend	eg. 2019-07-21 12:00:00

Returns (Example):

```
{"Version": "2.1", "status": "processed", "result": [{"ID": 76, "title": "Kanal 01", "type": "power", "unit": "kWh", "time_start": "2020-06-10 15:26:00", "time_end": "2020-06-10 15:32:00", "consumption": 0.006}]}}
```

sendmail

using onboard mail function (configuration of correct smtp connection is needed)
[Konfiguration](#) → [email \(smtp\)](#)

Parameter	Description
from	sender e.g. „Energy monitor“
address	e.g. abc@gmail.com
subject	text
msgHTML	mail message using html format
attach	attachements
debug	debug level 0-2

Returns (Example):

```
{ "Version": "2.1", "status": "o.k.", "result": [ { "time": "11.06.2020 13:28:03", "address": "info@solarautonomie.de", "subject": "Testmail", "message": "message sent", "errorcode": 0 } ] }
```

delete

function to delete single values from the database, base tables for raw values (*data*) and power values (*data_power*) **!Please use carefully, be aware of loosing data!**

Parameter	Description
value	power -, sensor – value that is to be deleted
time	eg. 2019-07-20 12:12:30
limit	standard set to 1, limit count of deletions
meterId	Id of the meter as provided by getMeters

Error

- | | |
|-----------------------------|--|
| 1 Unknown api-call | - requested method is probably wrong, correct spelling is required |
| 2 unknown meterId | - meterId is not known, use method getmeters |
| 3 request parameter missing | - check if any needed parameter is provided and has the correct format |
| 4 time can not be converted | - time format is not recognized (correct e.g. 2020-12-07 12:23:30) |
| 6 bad api call, NULL result | - method not known, wrong parameter format |