

Datalogger data sending format

To send data captured to a server, the datalogger use HTTP POST with JSON format.

The server and url port where the datalogger send the data are configurables using the web server interface utility.

In the present document are described the request format details and the expected answer.

Request:

Method: POST

Headers:

User-Agent: sennet

Content-Type: application/json

Sennet_Key: my_api_key

Where my_api_key is a key configurable in the datalogger. You can use this key to authorized or not the POST. It should be an string of up to 64 bytes.

JSON msg format:

```
{
  "version": "v1",
  "datalogger_id": "D85034C02445",
  "device_type": "83",
  "device_desc": "SenNet Meter",
  "device_name": "general consumption",
  "device_id": "003",
  "at": "1356390000",
  "data": {
    "Values": {
      "1": "23.34",
      "2": "456.30",
      "3": "43.23"
    },
    "Descriptions": {
      "1": "ActivePower kW",
      "2": "ActiveEnergy kWh",
      "3": "ReactiveEnergy kvar"
    }
  }
}
```

Where:

- **version:** version of SenNet API
- **datalogger_id:** datalogger's MAC (without ":"). For instance for a MAC of D8:50:34:C0:24:45 should use D85034C02445
- **device_id:** report id of the device. Will have a value between 001 and 100, and it is configurable for each device added into the datalogger.
- **device_type:** id associated to the device type
- **device_desc:** description of the device type
- **device_name:** user defined device name (configurable into the datalogger)
- **at:** timestamp in UNIX FORMAT
- **Values:** list of channels captured with its channel id and value.
- **Descriptions:** list of channels captured with its channel id and description

Note: the list of available device types (id /descriptions) and channels (id / descriptions) and should be downloaded from the datalogger web interface.

Answer

In order to indicate a correct reception, the server must answer with one of these answers:

200 OK

"response": "OK"

Examples of answers indicating an error are:

"response": "Not authorized"

"response": "Processor error"

Version V2

The version V2 differs from the V1 in the replacement of underscore by a hyphen:

Header:

"sennet-key" instead of "sennet_key"

Body:

"datalogger-id" instead of "datalogger_id"

"device-type" instead of "device_type"

"device-desc" instead of "device_desc"

"device-name" instead of "device_name"

"device-id" instead of "device_id"