

SENSIT Connect

API DOCUMENTATION

ABSTRACT

This document provides detailed information about the SENSIT connect APIs. Each endpoint is described with request details, headers, parameters, examples and response.



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SIGN IN (GENERATE ACCESS TOKEN)

ENDPOINT: <https://api.sensitconnect.net/users/signin>

REQUEST TYPE: POST

DESCRIPTION: Authenticates a user and returns an authorization token and User info.

HEADERS

HEADER NAME	TYPE	REQUIRED	DESCRIPTION	EXAMPLE
Content-Type	String	Yes	Format of request body	application/json

REQUEST PARAMETERS (BODY)

PARAMETER	TYPE	REQUIRED	DESCRIPTION
email	String	Yes	User's email address
password	String	Yes	User's password

REQUEST EXAMPLE

```
{
  "email": "user@example.com",
  "password": "mypassword123"
}
```

RESPONSE

```
{
  "accessToken":
    "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJlbWFpbCI6ImRldmVzaC5wYXJLZWtAZ2FzYmVha3NlbnNvcnMuY29tliwicm9sZSI6IkFkbWluaXN0cmF0b3liLCJkaXNwbGF5TmFtZSI6IkRldmVzaCIsInN0YXR1cyI6IkFjdGl2ZSI6ImhhdCI6MTc1NTQ5Mjg4MywiZmVudCI6ImNzU1NTI0IiwiaWF0IjoxNjgzfQ.aciTSWjV44pDG1S98iPchTab5fouBKeYB2siHoop6LI",
  "user": {
    "role": "Administrator",
    "email": "user@example.com",
    "displayName": "Test User",
    "id": "67e2434f2673eb18b51668f8",
    "clientId": "65278b3d557132c2011db836",
    "isMultiUser": false
  },
  "message": "Login Successfully!!"
}
```

REQUEST EXAMPLE:(WHEN CREDENTIALS ARE INVALID 401 UNAUTHORIZED RESPONSE RECEIVED)

```
{
  "email": "user@demoexample.com",
  "password": "mypassword123"
}
```

RESPONSE

```
{
  "data": [],
  "message": "The login is invalid. Wrong Credentials!!"
}
```

REQUEST EXAMPLE: (WHEN PARAMETER IS MISSING 400 RESPONSE RECEIVED)

```
{
  "email": "user@demoexample.com",
}
```

RESPONSE

```
{
  "message": "Expected double-quoted property name in JSON at
    position 56 (line 4 column 1)",
  "error": "Bad Request",
  "statusCode": 400
}
```

EXPORT RAW DATA FROM RAMP

ENDPOINT: <https://api.sensitconnect.net/sensors-data/getRAMPDeviceLogForGivenHour>

REQUEST TYPE: Post

DESCRIPTION:

- Fetches the raw logs for a specific RAMP Device within a given time range.
- Requires **Deviceld**, **StartDate**, and **EndDate** in the request body.
- StartDate and EndDate Must be **ISO 8601 string**
- StartDate and End Date Must have either Z (UTC) or ±HH:mm (timezone offset).
- The allowed time window is **maximum 2 hours**.
- If the time difference is ≤ 0 or > 2 hours, the API will return a **400 Bad Request**.
- If no logs are found for the given device, it will return a **404 Not Found**.

HEADERS

HEADER NAME	TYPE	REQUIRED	DESCRIPTION	EXAMPLE
Content-Type	String	Yes	Format of request body	application/json
Authorization	String	Yes	Bearer token from /users/signin	Bearer <accessToken>

REQUEST PARAMETERS (BODY)

PARAMETER	TYPE	REQUIRED	DESCRIPTION
Deviceld	String	Yes	Unique ID of the device
StartDate	String	Yes	StartDate
EndDate	String	Yes	EndDate

REQUEST EXAMPLE

```
{
  "Deviceld": "1043",
  "StartDate": "2025-07-22T06:51:04.000+00:00",
  "EndDate": "2025-07-22T08:51:04.000+00:00"
}
```

EXPORT USER DEFINED CORRECTION DATA FROM RAMP

ENDPOINT:

<https://api.sensitconnect.net/sensors-data/getRAMPUserDefinedCorrectionDeviceLogForGivenHour>

REQUEST TYPE: Post

DESCRIPTION:

- Fetches the user defined correction logs for a specific RAMP Device within a given time range.
- Requires **Deviceld**, **StartDate**, and **EndDate** in the request body.
- StartDate and EndDate Must be **ISO 8601 string**
- StartDate and End Date Must have either Z (UTC) or ±HH:mm (timezone offset).
- The allowed time window is **maximum 2 hours**.
- If the time difference is ≤ 0 or > 2 hours, the API will return a **400 Bad Request**.
- If no logs are found for the given device, it will return a **404 Not Found**.

HEADERS

HEADER NAME	TYPE	REQUIRED	DESCRIPTION	EXAMPLE
Content-Type	String	Yes	Format of request body	application/json
Authorization	String	Yes	Bearer token from /users/signin	Bearer <accessToken>

REQUEST PARAMETERS (BODY)

PARAMETER	TYPE	REQUIRED	DESCRIPTION
Deviceld	String	Yes	Unique ID of the device
StartDate	String	Yes	StartDate
EndDate	String	Yes	EndDate

REQUEST EXAMPLE

```
{
  "Deviceld": "1043",
  "StartDate": "2025-07-22T06:51:04.000+00:00",
  "EndDate": "2025-07-22T08:51:04.000+00:00"
}
```

RESPONSE

```
{
  "data": [
    {
      "_id": "687f3b5eef567d89bb51b49b",
      "id": 1043,
      "date": "2025-07-22T07:18:52.000Z",
      "CO2": 1474.74,
      "T": 23.9,
      "RH": 48.8,
      "PM_1_1_0": 21.56,
      "PM_1_2_5": 34.46,
      "PM_1_10_0": 39.07,
      "WD": 0,
      "WS": 0,
      "BATT": 12.74,
      "PWR": 0,
      "CHRG": 0,
      "RUN": 116.13,
      "SD": 1,
      "settingCRC": "1700706367",
      "stat": {
        "recharge": 1001,
        "signalstrength": -85,
        "version_number": 2153,
        "cellmodule": "EC200U",
        "bootloaderversion": 1,
        "heater_value": 10,
        "sample_type": 0,
        "trigger_type": 10,
        "boardRev": 11,
        "static_trigger": 0,
        "baseline_time": 300,
        "heatStat": 1,
        "rs232Error": 0,
        "signalnoise": 0,
        "pidhour1": 1
      },
      "statData": {
        "echemerror": [],
        "portconnect": [],
        "port_pwr": [],
        "port_fault": []
      },
      "settings": {
        "echem_sensor_settings_data": [],
        "pm_sensor_settings_data": []
      },
      "raw": [],
      "CAL": [],
      "ECHEM": [],...
    }
  ]
}
```

EXPORT RAW DATA FROM SPOD

ENDPOINT: <https://api.sensitconnect.net/sensors-data/getSPODDeviceLogForGivenHour>

REQUEST TYPE: Post

DESCRIPTION:

- Fetches the logs for a specific SPOD Device within a given time range.
- Requires **Deviceld**, **StartDate**, and **EndDate** in the request body.
- StartDate and EndDate Must be **ISO 8601 string**
- StartDate and End Date Must have either Z (UTC) or ±HH:mm (timezone offset).
- The allowed time window is **maximum 2 hours**.
- If the time difference is ≤ 0 or > 2 hours, the API will return a **400 Bad Request**.
- If no logs are found for the given device, it will return a **404 Not Found**.

HEADERS

HEADER NAME	TYPE	REQUIRED	DESCRIPTION	EXAMPLE
Content-Type	String	Yes	Format of request body	application/json
Authorization	String	Yes	Bearer token from /users/signin	Bearer <accessToken>

REQUEST PARAMETERS (BODY)

PARAMETER	TYPE	REQUIRED	DESCRIPTION
Deviceld	String	Yes	Unique ID of the device
StartDate	String	Yes	StartDate
EndDate	String	Yes	EndDate

REQUEST EXAMPLE (WHEN REQUEST IS VALID 200 RESPONSE RECEIVED)

```
{
  "Deviceld": "1034",
  "StartDate": "2025-07-28T06:51:04.000+00:00",
  "EndDate": "2025-07-28T08:51:04.000+00:00"
}
```

EXPORT USER DEFINED CORRECTION DATA FROM SPOD

ENDPOINT:

<https://api.sensitconnect.net/sensors-data/getSPODUserDefinedCorrectionDeviceLogForGivenHour>

REQUEST TYPE: Post

DESCRIPTION:

- Fetches the logs for a specific SPOD Device within a given time range.
- Requires **DeviceId**, **StartDate**, and **EndDate** in the request body.
- StartDate and EndDate Must be **ISO 8601 string**
- StartDate and End Date Must have either Z (UTC) or ±HH:mm (timezone offset).
- The allowed time window is **maximum 2 hours**.
- If the time difference is ≤ 0 or > 2 hours, the API will return a **400 Bad Request**.
- If no logs are found for the given device, it will return a **404 Not Found**.

HEADERS

HEADER NAME	TYPE	REQUIRED	DESCRIPTION	EXAMPLE
Content-Type	String	Yes	Format of request body	application/json
Authorization	String	Yes	Bearer token from /users/signin	Bearer <accessToken>

REQUEST PARAMETERS (BODY)

PARAMETER	TYPE	REQUIRED	DESCRIPTION
DeviceId	String	Yes	Unique ID of the device
StartDate	String	Yes	StartDate
EndDate	String	Yes	EndDate

REQUEST EXAMPLE (WHEN REQUEST IS VALID 200 RESPONSE RECEIVED)

```
{
  "DeviceId": "1034",
  "StartDate": "2025-07-28T06:51:04.000+00:00",
  "EndDate": "2025-07-28T08:51:04.000+00:00"
}
```

RESPONSE

```
{
  "data": [
    {
      "_id": "68873ae8be7cc7afa69faf9b",
      "id": 1034,
      "date": "2025-07-28T08:50:35.000Z",
      "pid1_PPB_Calc": 7.66,
      "pid1_mvRaw": 108.46,
      "temp": 19.6,
      "rh_Humd": 30.5,
      "pressure_mbar": 838,
      "ws_speed": 0.6,
      "ws_direction": 167.8,
      "tc_temp": 2395,
      "tc_heatOutput": 26,
      "tc_setPoint": 2387,
      "batt_voltage": 13.35,
      "chrg_current": 0,
      "run_current": 99.46,
      "trig": {
        "canister_status": 240,
        "trig_value": 0,
        "trig_activeFlag": 0,
        "trig_eventFlag": 0
      },
      "lat": "0.00000",
      "long": "0.00000",
      "receivedCRC": "4254374907",
      "crc": "4254374907",
      "settingCRC": "1520269335",
      "stat": {
        "sdStat": 1000,
        "heatStat": 1,
        "rs232Error": 0,
        "cellSig": -53,
        "cellSNR": 22,
        "boardRev": 5,
        "fwRev": 615,
        "sample_type": 3,
        "trigger_type": 10,...
```

EXPORT RAW DATA FROM FMD

ENDPOINT: <https://api.sensitconnect.net/sensors-data/getFMDDeviceLogForGivenHour>

REQUEST TYPE: Post

DESCRIPTION:

- Fetches the logs for a specific FMD Device within a given time range.
- Requires **DeviceId**, **StartDate**, and **EndDate** in the request body.
- StartDate and EndDate Must be **ISO 8601 string**
- StartDate and End Date Must have either Z (UTC) or ±HH:mm (timezone offset).
- The allowed time window is **maximum 2 hours**.
- If the time difference is ≤ 0 or > 2 hours, the API will return a **400 Bad Request**.
- If no logs are found for the given device, it will return a **404 Not Found**.

HEADERS

HEADER NAME	TYPE	REQUIRED	DESCRIPTION	EXAMPLE
Content-Type	String	Yes	Format of request body	application/json
Authorization	String	Yes	Bearer token from /users/signin	Bearer <accessToken>

REQUEST PARAMETERS (BODY)

PARAMETER	TYPE	REQUIRED	DESCRIPTION
DeviceId	String	Yes	Unique ID of the device
StartDate	String	Yes	StartDate
EndDate	String	Yes	EndDate

REQUEST EXAMPLE

```
{
  "DeviceId": "1028",
  "StartDate": "2024-02-05T06:51:04.000+00:00",
  "EndDate": "2024-02-05T08:51:04.000+00:00"
}
```

EXPORT USER DEFINED CORRECTION DATA FROM FMD

ENDPOINT:

https://api.sensitconnect.net/sensors-data/getFMDUserDefinedCorrectionDeviceLogForGivenHour

REQUEST TYPE: Post

DESCRIPTION:

- Fetches the logs for a specific FMD Device within a given time range.
- Requires **DeviceId**, **StartDate**, and **EndDate** in the request body.
- StartDate and EndDate Must be **ISO 8601 string**
- StartDate and End Date Must have either Z (UTC) or ±HH:mm (timezone offset).
- The allowed time window is **maximum 2 hours**.
- If the time difference is <= 0 or > 2 hours, the API will return a **400 Bad Request**.
- If no logs are found for the given device, it will return a **404 Not Found**.

HEADERS

HEADER NAME	TYPE	REQUIRED	DESCRIPTION	EXAMPLE
Content-Type	String	Yes	Format of request body	application/json
Authorization	String	Yes	Bearer token from /users/signin	Bearer <accessToken>

REQUEST PARAMETERS (BODY)

PARAMETER	TYPE	REQUIRED	DESCRIPTION
DeviceId	String	Yes	Unique ID of the device
StartDate	String	Yes	StartDate
EndDate	String	Yes	EndDate

REQUEST EXAMPLE

```
{
  "DeviceId": "1028",
  "StartDate": "2024-02-05T06:51:04.000+00:00",
  "EndDate": "2024-02-05T08:51:04.000+00:00"
}
```

RESPONSE

```
{
  "data": [
    {
      "_id": "65c0a8d9b5882d9e5b64715a",
      "id": 1028,
      "date": "2024-02-05T08:46:47.000Z",
      "CH4": 0.05,
      "T": 0,
      "RH": 0.01,
      "P": 982.5,
      "WS": 0.21,
      "WD": 291.1,
      "VBATT": 13.14,
      "CHRG": 0,
      "RUN": 183,
      "LaserReading": {
        "ModuleCurrent": 251,
        "LaserCurrent": 7,
        "LaserVoltage": 1.3,
        "LaserTemp": 31.33,
        "ChamberTemp": -0.32,
        "DiodePower": 1.6948,
        "State": 40,
        "Error": 0,
        "Counter": 250,
        "Alarm": 5,
        "GasPressure": 9.28
      },
      "LaserCellConcentration": {
        "Conc_cal": 4.26,
        "Conc_raw": 65.14,
        "Conc_cor": 3.85,
        "Conc_temp": 58.52
      },
      "stat": {
        "SD_STATUS": 1000,
        "unknown": 0,
        "RS232Error": 0,
        "RSSI": -83,
        "SNR": 3,
        "BoardRev": 64,
        "FWRev": 122,
        "SampType": 0,
        "TrigConfig": 10,
        "TriggerLevel": 1000,
        "BaselineAvgTime": 300,
        "MISC_settings": 230,
        "INIT_errorflag": 10512310,
        "BootLoaderSupport": 0,...
      },...
    }
  ]
}
```

EXPORT AVERAGE RAW DATA AS PER DEVICE

ENDPOINT: <https://api.sensitconnect.net/sensors-data/getAverageDeviceLog>

REQUEST TYPE: Post

DESCRIPTION:

- This API retrieves the **average logs** for a given device (SPOD, RAMP, or FMD) within a specified date range.
- The results are aggregated based on the provided **interval**.
- The **interval** must be one of the allowed values: **60, 240, 480, 1440** (minutes).
- If an unsupported interval is requested, the API returns **400 Bad Request**.
- If no logs exist for the given device and time range, the API returns an **empty list** with a message.

HEADERS

HEADER NAME	TYPE	REQUIRED	DESCRIPTION	EXAMPLE
Content-Type	String	Yes	Format of request body	application/json
Authorization	String	Yes	Bearer token from /users/signin	Bearer <accessToken>

REQUEST PARAMETERS (BODY)

PARAMETER	TYPE	REQUIRED	DESCRIPTION
DeviceId	String	Yes	Unique ID of the device
StartDate	String	Yes	StartDate
EndDate	String	Yes	EndDate
DeviceType	String	Yes	SPOD RAMP FMD
Interval	String	Yes	60 240 480 1440

REQUEST EXAMPLE

```
{
  "DeviceId": "1043",
  "StartDate": "2025-07-22T06:51:04.000+00:00",
  "EndDate": "2025-07-22T08:51:04.000+00:00",
  "DeviceType": "RAMP",
  "Interval": "60"
}
```

EXPORT USER DEFINED CORRECTION AVERAGE DATA AS PER DEVICE

ENDPOINT:

<https://api.sensitconnect.net/sensors-data/getUserDefinedCorrectionAverageDeviceLogs>

REQUEST TYPE: Post

DESCRIPTION:

- This API retrieves the **average logs with user defined corrections applied** for a given device (SPOD, RAMP, or FMD) within a specified date range.
- The results are aggregated based on the provided **interval**.
- The **interval** must be one of the allowed values: **60, 240, 480, 1440** (minutes).
- If an unsupported interval is requested, the API returns **400 Bad Request**.
- If no logs exist for the given device and time range, the API returns an **empty list** with a message.

HEADERS

HEADER NAME	TYPE	REQUIRED	DESCRIPTION	EXAMPLE
Content-Type	String	Yes	Format of request body	application/json
Authorization	String	Yes	Bearer token from /users/signin	Bearer <accessToken>

REQUEST PARAMETERS (BODY)

PARAMETER	TYPE	REQUIRED	DESCRIPTION
DeviceId	String	Yes	Unique ID of the device
StartDate	String	Yes	StartDate
EndDate	String	Yes	EndDate
DeviceType	String	Yes	SPOD RAMP FMD
Interval	String	Yes	60 240 480 1440

REQUEST EXAMPLE

```
{
  "DeviceId": "1043",
  "StartDate": "2025-07-22T06:51:04.000+00:00",
  "EndDate": "2025-07-22T08:51:04.000+00:00",
  "DeviceType": "RAMP",
  "Interval": "60"
}
```

RESPONSE

```
{
  "data": [
    {
      "_id": "2025-07-22T07:00:00.000Z",
      "date": "2025-07-22T07:00:00.000Z",
      "CO": null,
      "CO_MIN": null,
      "CO_MAX": null,
      "SO2": null,
      "SO2_MIN": null,
      "SO2_MAX": null,...
      "CO2": 1476.86,
      "CO2_MIN": 1468.87,
      "CO2_MAX": 1489.21,...
      "WS": 0,
      "WD": 0,
      "RH": 49.04,
      "RH_MIN": 48.4,
      "RH_MAX": 50.2,
      "T": 23.78,
      "T_MIN": 23.6,
      "T_MAX": 23.9,
      "TE": null,
      "TE_MIN": null,
      "TE_MAX": null,
      "pid1_PPB_Calc": null,
      "pid1_PPB_Calc_MIN": null,
      "pid1_PPB_Calc_MAX": null,
      "pid1_mvRaw": null,
      "pid1_mvRaw_MIN": null,
      "pid1_mvRaw_MAX": null,
      "pid2_PPB_Calc": null,
      "pid2_PPB_Calc_MIN": null,
      "pid2_PPB_Calc_MAX": null,
      "pid2_mvRaw": null,
      "pid2_mvRaw_MIN": null,
      "pid2_mvRaw_MAX": null,
      "mos1": null,
      "mos1_MIN": null,
      "mos1_MAX": null,
      "mos2": null,
      "mos2_MIN": null,
      "mos2_MAX": null,
      "mos1_mvRaw": null,
      "mos1_mvRaw_MIN": null,
      "mos1_mvRaw_MAX": null,...
    }
  ],
  "message": "Device Logs!!"
}
```

GET DEVICE INFORMATION BASED ON USERID, ROLE AND DEVICETYPE

ENDPOINT:

https://api.sensitconnect.net/clients/
getDevicesFromDeviceTypeAndRole?DeviceType={deviceType}&Role={role}&UserId={userId}

REQUEST TYPE: Get

DESCRIPTION:

- This API retrieves a list of devices filtered by **device type**, **user role**, and **user ID**.
- It is typically used to fetch devices available to a specific user, based on their role and the type of device.
- If no devices are found, the API returns an **empty list**.
- If invalid parameters are passed, the API returns **400 Bad Request**.

HEADERS

HEADER NAME	TYPE	REQUIRED	DESCRIPTION	EXAMPLE
Content-Type	String	Yes	Format of request body	application/json
Authorization	String	Yes	Bearer token from /users/signin	Bearer <accessToken>

REQUEST PARAMETERS (QUERY)

PARAMETER	TYPE	REQUIRED	DESCRIPTION
DeviceType	String	Yes	Type of Device['SPOD','RAMP','FMD','ALL']
Role	String	Yes	Role Of the User
UserId	String	Yes	UserId obtained from signin API

REQUEST EXAMPLE

```
https://api.sensitconnect.net/clients/getDevicesFromDeviceTypeAndRole?DeviceType=RAMP&Role=ClientAdministrator&UserId=67e2434f2673eb18b51668f8
```

RESPONSE

```
{
  "data": [
    {
      "_id": "65fb5572e2b296985deb8168",
      "uuid": "1999",
      "key": "",
      "name": "RAMP 1999",
      "location": "Someplace",
      "sensorLat": "0.00000",
      "sensorLng": "0.00000",
      "picture": "",
      "status": "Active",
      "type": "RAMP",
      "isUTCTimeZone": false,
      "lastReceivedTime": "2025-10-22T01:11:59.000Z",
      "lastReceivedRecord": {
        "id": "1999",
        "date": "2025-10-22T01:11:59.000Z",
        "stat": {
          "recharge": 1000,...
        },
        "settings": {
          "echem_sensor_settings_data": [
            ...
          ],
          "pm_sensor_settings_data": [
            ...
          ],
          "autorange": 0,...
        },
        "settingCRC": "2490349476",...
        "raw": [
          ...
        ],
        "statData": {
          "sd_init": 0,...
        },
        "lat": "0.00000",
        "long": "0.00000",
        "crc": "3080428352",
        "receivedCRC": "3080428352"
      },
      "lastTwentyFourHoursReceivedRecord": null,
      "isFirmwareUpdateRequire": false,
      "isCharging": false
    }
  ],
  "message": "Device data !!"
}
```

[illegible]

851 Transport Drive
Valparaiso, IN 46383-8432
Phone: 219.465.2700
Fax: 219.465.2701
Email: info@gasleaksensors.com
Website: www.sensit-tech.com

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