

GrayWolfLive API

Updated July 2023



GrayWolfLive APIs

The GrayWolfLive API allows you to retrieve Live Data or Historical Data stored on GrayWolfLive from ANY INSTRUMENT including probes connected to GrayWolf Meters (AdvanceSensePRO's or Tablets), Wi-Fi enabled DirectSense II probes or Wi-Fi enabled Particle Counters.

The use of the GrayWolfLive API requires an account on GrayWolfLive with API access enabled.

For the API, you can retrieve a dataset from a single probe, or from a single instrument connected to multiple sensing devices.

The API is located at:

<https://graywolfliveapi.com/>

Latest Readings API

To obtain the latest set of readings:

<https://graywolfliveapi.com/api/LiveReadings/>

User must supply a json “**parameters**” set including **apikey** (provided by GrayWolf)

And either **deviceID** (see instructions on Page 5) or **deviceSerial** (Serial number of device or probe)

The DeviceID or SerialNumber must correspond to a device in the user's account and is only accessible if API matches credentials and device can be viewed by user.

Example:

[https://graywolfliveapi.com/api/LiveReadings/?parameters={"apikey":"XXXX","deviceID":5110}](https://graywolfliveapi.com/api/LiveReadings/?parameters={)

Results will be a HTTP code of 200 and a JSON data string or a HTTP error code and a description of the error.



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GrayWolf Tech Notes

Example of formatted JSON response:

```
{
  "version": 1.0,
  "generator": "GrayWolfLiveAPI",
  "api": "1.00",
  "error": "",
  "battery": "Charging",
  "status": "Ready",
  "serialNumber": "15-1200",
  "timeStamp": "2021-05-19T16:50:22.000Z",
  "data": [
    {
      "sensor": "Carbon Monoxide",
      "unit": "ppm",
      "value": 0.4,
      "status": "OK"
    },
    {
      "sensor": "Carbon Dioxide",
      "unit": "ppm",
      "value": 303.0,
      "status": "OK"
    },
    {
      "sensor": "Relative Humidity",
      "unit": "%RH",
      "value": 51.0,
      "status": "OK"
    },
    {
      "sensor": "Temperature",
      "unit": "°C",

```

Battery codes are OK, Low, Critical, Charging or External

Status codes for Probe are: OK, Ready, Stabilizing, Error

Status codes for Sensors are: OK, Error, CheckCal, LaserError, PumpError



GrayWolf Tech Notes

Live Reading Table API

To obtain a set of readings over a time range:

<https://graywolfliveapi.com/api/LiveReadingTable/>

User must supply a json “**parameters**” set including **apikey** (provided by GrayWolf)

And either **deviceID** (see instructions on Page 5) or **deviceSerial** (Serial number of device or probe)

The DeviceID or SerialNumber must correspond to a device in the user’s account and is only accessible if API matches credentials and device is allowed to be viewed by user.

startDateTime - may be supplied in ISO8601 format or YYYY-MM-DD HH:MM format.

endDateTime

average – true or false indicating if you would like the readings to be averaged together for a smaller data set.

NOTE: if too large a dataset is requested, the averaging is automatically enabled.

Example:

[https://graywolfliveapi.com/api/LiveReadingTable/?parameters={\"apikey\":\"XXXXXX\",\"deviceID\":5181,\"startDateTime\":\"19-May-2021 08:00\",\"endDateTime\":\"19-May-2021 19:00\",\"average\":\"true\"}](https://graywolfliveapi.com/api/LiveReadingTable/?parameters={\)

Expanded PARAMETERS:

```
{
  "apikey": "XXXXXX",
  "deviceID": 5119,
  "startDateTime": "1-Jan-2022 08:00",
  "endDateTime": "1-May-2022 19:00",
  "average": "true"
}
```



GrayWolf Tech Notes

Results are a JSON encoded data table. See example below.

The JSON will contain 2 tags:

Averaged which will be **true** or **false** depending on whether the data has been averaged.

AveragingMethod will contain details including the downsample rate.

```
{
  "generator": "GrayWolfLiveAPI",
  "api": "1.00",
  "version": 1.0,
  "error": "",
  "serialNumber": "110590",
  "AveragingMethod": "Not averaged or downsampled.",
  "Averaged": false,
  "data": [
    {
      "DateTime": "2021-05-19T08:00:33.423",
      "Carbon Monoxide ppm": 0.5,
      "Carbon Dioxide ppm": 307.0,
      "Relative Humidity %RH": 62.8,
      "Temperature °C": 13.1
    },
    {
      "DateTime": "2021-05-19T08:02:34.26",
      "Carbon Monoxide ppm": 0.5,
      "Carbon Dioxide ppm": 308.0,
      "Relative Humidity %RH": 62.9,
      "Temperature °C": 13.0
    },
    {
      "DateTime": "2021-05-19T08:04:35.11",
      "Carbon Monoxide ppm": 0.5,
      "Carbon Dioxide ppm": 307.0,
      "Relative Humidity %RH": 62.8,
      "Temperature °C": 13.0
    },
    {
      "DateTime": "2021-05-19T08:06:35.87",
      "Carbon Monoxide ppm": 0.5,
      "Carbon Dioxide ppm": 306.0,
      "Relative Humidity %RH": 62.7,

```

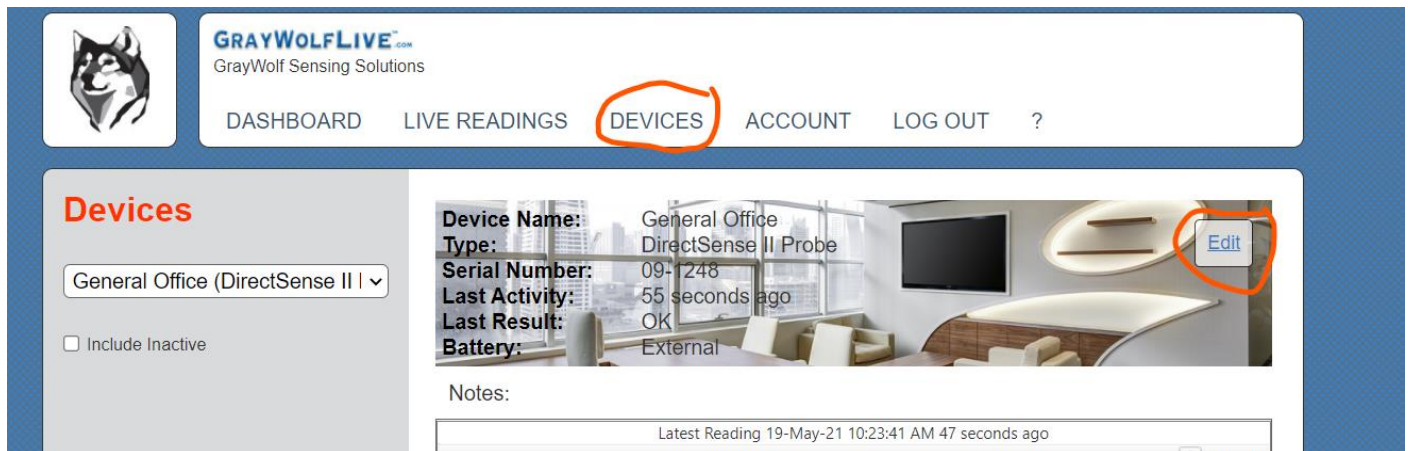


GrayWolf Tech Notes

Determining Device ID

All devices on GrayWolfLive are assigned an integer “DeviceID” on the system. Once GrayWolfLive has assigned a DeviceID integer, it will not change.

The simplest way to determine the DeviceID is to log onto GrayWolfLive and select **Devices**, then Edit.

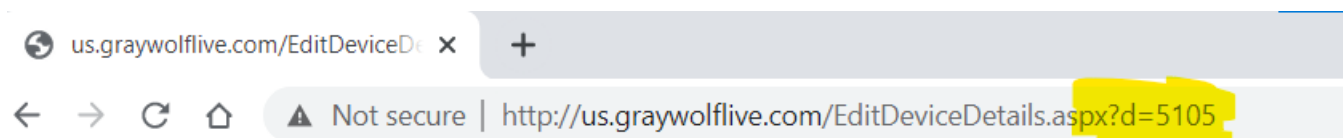


The screenshot shows the GrayWolfLive web interface. The top navigation bar includes a logo, the company name "GRAYWOLF LIVE GrayWolf Sensing Solutions", and menu items: DASHBOARD, LIVE READINGS, DEVICES (circled in orange), ACCOUNT, LOG OUT, and a help icon. The main content area is titled "Devices" and features a dropdown menu set to "General Office (DirectSense II)". Below this is a checkbox for "Include Inactive". The device details are displayed in a table:

Device Name:	General Office
Type:	DirectSense II Probe
Serial Number:	09-1248
Last Activity:	55 seconds ago
Last Result:	OK
Battery:	External

An "Edit" button is visible in the top right corner of the device details section, circled in orange. Below the details is a "Notes" section with a text area containing "Latest Reading 19-May-21 10:23:41 AM 47 seconds ago".

The **DeviceID** will be displayed in the web-address, after the **d=**



The screenshot shows a web browser address bar. The URL is <http://us.graywolflive.com/EditDeviceDetails.aspx?d=5105>. The "d=5105" portion of the URL is highlighted in yellow.



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Example PostMan Session

The screenshot shows the Postman interface with a GET request to the GrayWolfLive API. The URL is `https://graywolfliveapi.com/api/LiveReadings/?parameters={"apikey":"3276686242505474374959694675364274364770504470456176684F507643467832356E4F5454376A4C733D","deviceId":205}`. The response is a JSON object with the following structure:

```
1 {"version":1.0,"generator":"GrayWolfLiveAPI","api":1.00,"error":"","battery":"External","status":"OK","serialNumber":"09-1001","timeStamp":"2023-08-10T16:55:20.000Z","data":[{"sensor":"Relative Humidity","unit":"%RH","value":29.3,"id":14013,"status":"OK"}, {"sensor":"Temperature","unit":"°C","value":34.1,"id":14013,"status":"OK"}]}
```



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