

Gateway Cloud API

The information below is a swagger definition for the SensorPush public API for the Gateway cloud. Download the swagger definition file here.

Note that requests can be made no more than once per minute. If you need support, please reach out to support@sensorpush.com, please be sure to preface your email subject with "[api]" so it reaches the correct team.

Important! To activate your API access, please log in to the Gateway Cloud Dashboard and agree to the terms of service. Once you've logged in that initial time, your account will have access. You can review the terms here.

Base URL:	https://api.sensorpush.com/api/v1
Version:	v1.0.20250705
Schemes:	https

Examples

The following illustrates how to interact with the API via simple curl commands.

Important FYI about tokens:

The authorization token is returned after a successful signin. This token identifies the user as a trusted client, and is valid for 60 minutes.

The authorization token is used to request two additional tokens: access and refresh tokens. The access token authorizes the user to begin using the API. This token is valid for 30 minutes, at which time the client must request a new access token using the refresh token.

The refresh token is valid for 60 minutes. Upon requesting a new access token, the client will receive new refresh token as well. The access token is valid for another 30 minutes, and the refresh token is again valid up to an additional 60 minutes.

These steps are in accordance with the oAuth2 specifications such that if any of the three tokens are lost, the tokens eventually expire, thus securing the account once again.

For additional information, please refer to the oAuth website.





be observed by reading the "last_seen" property of a Gateway. Consider evaluating the "last_seen" property of a Gateway roughly every 15 minutes for a reliable indication of its status.

Example 1 - Step 1: Authorization

Log in using a valid email/password to recieve an authorization code.

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curl -X POST "https://api.sensorpush.com/api/v1/oauth/authorize" \
 -H "accept: application/json" \
 -H "Content-Type: application/json" \
 -d @- <<BODY {
 "email": "<email>",
 "password": "<password>"
}
BODY

Example 1 - Step 2: OAuth Access

Request a temporary oauth access token. Use the result from the previous step for the authorization code in the body.

```
curl -X POST "https://api.sensorpush.com/api/v1/oauth/accesstoken" \
   -H "accept: application/json" \
   -H "Content-Type: application/json" \
   -d @- <<BODY {
        "authorization": "<authorization>"
    }
   BODY
```

Example 2: List Gateways

Request a list of gateways. Add the header "Authorization: " using the accesstoken returned in the OAuth Access step.

```
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curl -X POST "https://api.sensorpush.com/api/v1/devices/gateways" \
   -H "accept: application/json" \
   -H "Authorization: <accesstoken>" \
   -d @- <<BODY
{}
BODY</pre>
```



```
curl -X POST "https://api.sensorpush.com/api/v1/devices/sensors" \
-H "accept: application/json" \
-H "Authorization: <accesstoken>" \
-d @- <<BODY
{}
BODY</pre>
```

Example 4: Query Samples

Request up to 20 samples occuring after a timestamp with this format YYYY-MM-DDThh:mm:ss.000Z, and also add the header "Authorization: " using the accesstoken returned in the OAuth Access step.

Data for temperature is in Fahrenheit.

```
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```

```
curl -X POST "https://api.sensorpush.com/api/v1/samples" \
  -H "accept: application/json" \
  -H "Authorization: <accesstoken>" \
  -d @- <<BODY
  { "limit": 20 }
  BODY</pre>
```

Example 5: Query Samples for Specific Sensors and/or Specific Start and Stop Times

Similar to the "Query Samples" example, but with an added array for specific sensor IDs, and also added startTime and stopTime.

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```
curl -X POST "https://api.sensorpush.com/api/v1/samples" \
-H "accept: application/json" \
-H "Authorization: <accesstoken>" \
-d @- <<BODY
{ "sensors": ["01234.0123456789012345"],
   "limit": 10000,
   "startTime": "2019-03-07T10:30:00-0400",
   "stopTime": "2019-04-07T10:30:00-0400"
}
BODY</pre>
```



	,,,	

Authorization

In:

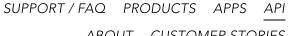
Header

Description:

This header value grants temporary access to data resources. Use the accesstoken value returned by the accesstoken service.

Paths

Path	Operation	Description
/	POST	SensorPush API status
/devices/gateways	POST	Lists all gateways.
/devices/sensors	POST	Lists all sensors.
/oauth/accesstoken	POST	Request a temporary oAuth access code.
/oauth/authorize	POST	Sign in and request an authorization code
/oauth/token	POST	oAuth 2.0 for authorization, access, and refresh tokens
/reports/download	POST	Download bulk reports.
/reports/list	POST	Lists reports available for download.
/samples	POST	Queries for sensor samples.



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SensorPush API status

Description:

This service is used as a simple method for clients to verify they can connect to the API.

Responses:

application/json

200 response

Status

Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

POST /devices/gateways

Lists all gateways.

Description:

This service will return an inventory of all registered gateways for this account.

Responses:

application/json

200 response

Gateways

400 response

Error





Access-Collinoi-Milow-Ivieri Iods	sumg	
Access-Control-Allow-Origin	string	
500 response		
Error		
Header	Data type	
Access-Control-Allow-Headers	string	
Access-Control-Allow-Methods	string	
Access-Control-Allow-Origin	string	
Security:		
oauth-public		

POST /devices/sensors

Lists all sensors.

Description:

This service will return an inventory of all registered sensors for this account.

Responses:

application/json

200 response

Sensors

400 response

Error

Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string





иата туре
string
string
string

POST /oauth/accesstoken

Request a temporary oAuth access code.

Description:

This is a simplified version of oAuth in that it only supports accesstokens and does not require a client_id. See the endpoint '/api/v1/oauth/token' for the more advanced oAuth endpoint. Once a user has been authorized, the client app will call this service to receive the access token. The access token will be used to grant permissions to data stores. An access token expires every hour. After that, request a new access token.

Responses:

application/json

200 response

AccessTokenResponse	
Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

400 response

21101	
Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string





500 response

Data type
string
string
string

POST /oauth/authorize

Sign in and request an authorization code

Description:

Sign into the SensorPush API via redirect to SensorPush logon. Then signin using email/password, or an api id. This service will return an oAuth authorization code that can be exchanged for an oAuth access token using the accesstoken service.

Responses:

application/json

200 response

AuthorizeResponse	
Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

400 response

Error	
Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string





Data type	
string	
string	
string	
	string

POST /oauth/token

oAuth 2.0 for authorization, access, and refresh tokens

Description:

This is a more advanced endpoint that implements the oAuth 2.0 specification. Supports grant_types: password, refresh_token, and access_token. If grant_type is null an access_token will be returned. (see oAuth Grant Types). A client_id is required for this endpoint. Contact support@sensorpush.com to register your application and recieve a client_id.

Responses:

application/json

TokenResponse

200 response

·	
Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

400 response

Error	
Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

500 response





Access-Control-Allow-Headers	string	
Access-Control-Allow-Methods	string	
Access-Control-Allow-Origin	string	

POST /reports/download

Download bulk reports.

Description:

This service will download bulk generated reports.

Responses:

application/json

200 response

400 response

Error

Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

500 response

Error	

Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

Security:



POST /reports/list

Lists reports available for download.

Description:

This service will list all bulk generated reports available to download.

Responses:

application/json

200 response

ListResponse

400 response

Error

Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

500 response

Error

Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

Security:

oauth-public





This service is used to query for samples persisted by the sensors. The service will return all samples after the given parameter {startTime}. Queries that produce greater than ~5MB of data will be truncated. If results return truncated, consider using the sensors parameter list. This will allow you to retrieve more data per sensor. For example, a query that does not provide a sensor list, will attempt to return equal amounts of data for all sensors (i.e. ~5MB divided by N sensors). However, if one sensor is specified, than all ~5MB will be filled for that one sensor (i.e. ~5MB divided by 1). Another option is to paginate through results by time, using {startTime} as the last date in your previous page of results.

Resj	oor	nses:
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application/json

200 response

Samples

400 response

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Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

500 response

Error

Header	Data type
Access-Control-Allow-Headers	string
Access-Control-Allow-Methods	string
Access-Control-Allow-Origin	string

Security:

oauth-public





esponses:		
application/json		
00 response		
TagsResponse		
00 response		
Error		
Header	Data type	
Access-Control-Allow-Headers	string	
Access-Control-Allow-Methods	string	
Access-Control-Allow-Origin	string	
00 response		
Error		
Header	Data type	
Access-Control-Allow-Headers	string	
Access-Control-Allow-Methods	string	
Access-Control-Allow-Origin	string	
ecurity:		
oauth-public		

Schema definitions

AccessTokenRequest

Type: object

Description:



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Authorization code recieved from the oauth/authorize service.

AccessTokenResponse

Type: object

Description:

Response object for an oAuth authorization code.

Properties:

accesstoken: string

JWT oAuth accesstoken. Pass this code to the data services via the http header 'Authorization'. Example 'Authorization' :

'Bearer '

AuthorizeRequest

Type: object

Description:

Request object for an oAuth authorization code.

Properties:

email: string

Email associated with a valid account.

password: string

Password associated with the email.

AuthorizeResponse

Type: object

Description:

Response object for an oAuth authorization code.



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(nttps://jwt.io/) website nas a useful jwt viewer.

Type: object

Properties:

message: string

Gateway

Type: object

Properties:

last_alert: string

Date last alert was sent

last_seen: string

Date the gateway was last seen

message: string

Detailed message associated with the gateway status.

name: string

Name associated with a gateway

paired: string

Gateway is paired with a bluetooth device

tags: object

List of tags associated with this device

version: string

Version of Sensorpush software



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Map of registered SensorPush gateways

GatewaysRequest

Type: object

Description:

Request object for gateways.

Properties:

format: string

Returns the results as the specified format (csv|json). Defaults to json

ListResponse

Type: object

Properties:

files: array

ReportListing

Type: object

Properties:

last_modified: string

Date file was last modified

name: string

Name of the file

size: string



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ReportsReque	est
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Type: object

Description:

Request object for reports.

Properties:

path: string

The directory path to perform this operation.

Sample

Type: object

Description:

This represents one observation recorded by a given sensor. The fields listed below (except for observed) will be populated base on the measures parameter specified in the request, and if the given sensor version collects that particular measure. For example, barometric_pressure is not available in HT1 series sensors, and thus will not be reported.

Properties:

altitude: number

Value unit is feet (ft)

barometric_pressure: number

Value unit is inch of mercury (inHg)

dewpoint: number

Value unit is farenheit (°F)

humidity: number

Value unit is percentage (%)

observed: string

Date time when sample was observed.

tags: object

List of tags associated with this device



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Value unit is kPa

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Type: object

Description:

Map of registered SensorPush sensors

Properties:

last_time: string

ISO date time of the last sample returned. Use this as the start_ts to query for the next page of samples.

sensors: object

Map of sensors and the associated samples.

status: string

Message describing state of the api call.

total_samples: number

Total number of samples across all sensors

total_sensors: number

Total number of sensors returned

truncated: boolean

The query returned too many results, causing the sample list to be truncated. Consider adjusting the limit or startTime parameters.

SamplesRequest

Type: object

Description:

Request object for samples.

Properties:



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Queries that return large results are truncated (see comments on Samples endpoint). Set this flag to true for large reports.

The report request will be queued and processed within 24 hours. Upon completion, the primary account holder will recieve an email with a link for download.

format: string

Returns the results as the specified format (csv | json). Defaults to json

limit: integer

Number of samples to return.

measures: array

Specifies which measures to include ("temperature" | "humidity" | "vpd" | "barometric_pressure" | "dewpoint"). Note some measures are not available on older devices.

sensors: array

Filters samples by sensor id. This will be the same id returned in the sensors api call. The parameter value must be a list of strings. Example: sensors: ["123.56789"].

startTime: string

Start time to find samples (example: 2019-04-07T00:00:00-0400). Leave blank or zero to get the most recent samples.

stopTime: string

Stop time to find samples (example: 2019-04-07T10:30:00-0400). Leave blank or zero to get the most recent samples.

tags: array

Filters samples by associated tags.

Sensor

Type: object

Properties:

active: boolean

Is the sensor active?

address: string

MAC address

alerts: object



alert settings for humidity

Properties:

enabled: boolean

Is enabled?

max: number

Max threshold for alert

min: number

Min threshold for alert

temperature: object

alert settings for temperature

Properties:

enabled: boolean

Is enabled?

max: number

Max threshold for alert

min: number

Min threshold for alert

battery_voltage: number Current battery voltage

calibration: object
Calibration settings

Properties:

humidity: number
Humidity calibration

temperature: number
Temperature calibration

deviceld: string

Short device Id

id: string





rssi:	num	ber

Wireless signal strength in dB at last reading

tags: object

List of tags associated with this device

type: string

Type of device hardward

Sensors

Type: object

Description:

Map of registered SensorPush sensors

SensorsRequest

Type: object

Description:

Request object for sensors.

Properties:

active: boolean

filters sensors by active = (true | false). Defaults to true

format: string

Returns the results as the specified format (csv|json). Defaults to json

Status

Type: object





deployed: string	
Date time when this service was last updated.	
message: string	
Greeting message.	
ms: integer	
Current date time on the server in milliseconds.	
stack: string	
Active stack hosting this service.	
status: string	
Current status of the api service.	
Carrent status of the apricerities.	
time: string	
Current date time on the server.	
version: string	
Version of this service currently deployed	
Tags	
Type: object	
Description:	
Map of registered devices and their tags.	
Properties:	
gateways: object	

TagsRequestType: object

sensors: object



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sensors: object

TagsResponse

Type: object

Description:

Response object resulting from updating tags on devices.

Properties:

status: string

Message indicating if the tags were successfully updated.

TokenRequest

Type: object

Description:

Request object for an oAuth accesstoken code.

Properties:

client_id: string

Client Id assigned to 3rd party applications. Contact support@sensorpush.com to register you app.

client_secret: string

Password associated with the client_id

code: string

This can be an authorization, access, or refresh token. Depending on which grant_type you are using.

grant_type: string

Accepted values are password, refresh_token, and access_token

password: string

User's password

redirect_uri: string



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Refresh token used to request new access tokens.

username: string

Email of the user to sign in.

TokenResponse

Type: object

Description:

Response object for an oAuth authorization code.

Properties:

access_token: string

JWT oAuth access token. Pass this token to the data services via the http header 'Authorization'. Example 'Authorization':

'Bearer '

expires_in: number

TTL of the token in seconds

refresh_token: string

JWT oAuth refresh token. Pass this token to the token service to retrieve a new access token.

token_type: string

Type of token returned



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* indicates required		
Email Address*	First Name	
Last Name		
SUBSC	CRIBE	

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