

SAM: REST Endpoint

The document outlines endpoints that can be used to get measurements from the SAM system.

<ip_address>: IP address of the SAM system (e.g. 127.0.0.1 - IP address of localhost).

- **Getting IP of SAM System:**
 - Press **Super** Key (Windows Keys) and start typing **Network**
 - Click on **Network** in **Settings**
 - Click the gear icon of Ethernet (en01)
 - Note down **IPv4 Address**

Get Available Keys

URL

`http://<ip_address>:8000/public/api/v0.1/getkeys`

Method

GET

URL Params

None

Data Params

None

Success Response

- **Code:** 200
- **Content:** { "keys": ["CH4", "CO2", "CavityPressure", "CavityTemp"] }

Error Response

Bad Request: Incorrect use of API, most likely error in passed **URL**

- **Code:** 400 Bad Request
- **Content:** Please check for incorrect use of API. The API requested, could not be found.

Sample Call

```
curl -X GET --header 'Accept: application/json'
'http://<ip_address>:8000/public/api/v0.1/getkeys'
```

Get Points

URL

`http://<ip_address>:8000/public/api/v0.1/getpoints`

Method

GET

URL Params

Required

- **keys:** available field keys for measurement, can be fetched using [Get Available Keys](#) endpoint

Optional

- **from:** sets start time for fetching records,
 - UTC format or epoch
- **to:** sets end time for fetching records
 - UTC format or epoch
- **epoch:** `true` if epoch time is passed

Note: If none of the fields specified above are passed in, the most recent data is returned.

Data Params

None

Success Response

- **Code:** 200
- **Content:** `{"points": [{"time": 1583946245223, "CavityPressure": 140, "valve_pos": "0"}]}`

Error Response

Bad Request: Incorrect use of API, most likely error in passed [URL](#)

- **Code:** 400 Bad Request
- **Content:** `Please check for incorrect use of API. The API requested, could not be found.`

Internal Server Error: Incorrect use of API, most likely error in passed [URL Params](#)

- **Code:** 500 Internal Server Error
- **Content:** `Server got itself in trouble.`

Sample Call

```
curl -X GET --header 'Accept: application/json'  
'http://<ip_address>:8000/public/api/v0.1/getpoints?  
keys=NH3&from=1571141669042&to=1571332469042&epoch=true'
```

```
curl -X GET --header 'Accept: application/json'  
'http://<ip_address>:8000/public/api/v0.1/getpoints?keys=NH3&keys=H2O&from=2019-  
10-15T12:14:29.042Z&to=2019-10-17T17:14:29.042Z'
```
