

General information on Embed API

-> Principle guide to using the Embed API:

<https://github.com/MastodonC/kixi.hecuba/blob/master/doc/tutorial.md>

-> Link to Embed API docs: <https://github.com/MastodonC/kixi.hecuba/blob/master/doc/api.md>

-> Link to the http request for rollups:

<https://github.com/MastodonC/kixi.hecuba/blob/master/doc/api.md#measurements>

-> Link to Python script to use Embed API:

<https://github.com/MastodonC/scripts-embed-api>

Retrieve Embed measurements via the API

From the “[measurements](#)” paragraph in Embed API documentation you’ll see there are three types of measurements you can retrieve:

- raw measurements
- hourly rollups
- daily rollups

Here’s what the **example url** for the http GET request is on the docs:

`http://hostname/4/entities/1d3f8fbcd69bdc40aa6f8b0df1323b44100d99c3/devices/5f10b63931593f90a1a08729889a0842deda818c/daily_rollups/CO2?startDate=2012-07-05%2000:00:00&endDate=2014-06-16%2000:00:00`

Here’s what you need to edit to make your request:

- **entity-id**: identifier for the house in Embed
- **device-id**: identifier for the device in Embed
- **sensor-type**: type associated with the device in Embed
- **start-date**: start date for the rollups + start time
- **end-date**: end date for the rollups + end time

Note:

Here we use “**daily_rollups**” but it could be replaced by “**hourly_rollups**” or “**measurements**” depending on the information you want to retrieve.

How to get the type of a sensor?

Look up the API documentation for devices:

<https://github.com/MastodonC/kixi.hecuba/blob/master/doc/api.md#get-device-resource>

You need to edit the GET request url with the entity-id of the house and the device-id of the device of interest:

<http://:hostname/4/entities/2d7d6785-d3d2-4c98-9de9-b5a92fd27a82/devices/cf62ea45-7cf8-431b-9bdc-265ad5a42d01>.

The documentation show you the structure of the response you'll get and how to access the "type".

Embed conversions

See details on the conversions:

<https://github.com/MastodonC/kixi.hecuba/blob/master/doc/documentation.md#conversion-factors-for-calculated-datasets>

- The measurements of unit specified as **"m^3" or "ft^3" are converted to "kwh"**
- The measurements of unit specified as **"kwh" are converted to CO2**

Synthetic sensors contain additional info

The conversion and tariff calculations like the difference series are available for a device as an additional sensor with the parameters "synthetic" "yes" and a type specific to them

Here's an example

Sensors

Type	Synthetic?	Header Rows	Unit	Period
electricityConsumption_differenceSeries_co2	Yes		co2	PULSE
waterConsumption_differenceSeries	Yes		L	PULSE
electricityConsumption_differenceSeries	Yes		kWh	PULSE
electricityConsumption	No		kWh	CUMULATIVE
gasAsHeatingFuel	No		m^3	INSTANT
waterConsumption	No		L	CUMULATIVE

You can access sensors information on a device using Embed API in the same way we previously looked for type of a sensor.

Note:

To retrieved measurements for different sensors (after conversions...) use the http GET request detailed above in the paragraph "Retrieve Embed measurements via the API" and add the relevant sensor type.