
Sensorlab.io Javascript SDK Documentation

Sensorlab.io

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1.1 Getting Started

This is documentation on Javascript SDK Widgets for <http://sensorlab.io/>

You can use these widgets as default ones along with Javascript SDK in your Javascript project.

1.1.1 Installation

Install with npm:

```
$ npm i --save https://github.com/sensorlabio/sensorlabio-javascript-sdk
$ npm i --save https://github.com/sensorlabio/sensorlabio-javascript-sdk-widgets
```

1.1.2 React example

Initialize inside your js code

```
import {SensorlabApi} from "sensorlabio-javascript-sdk";
import {SensorlabWidgets} from "sensorlabio-javascript-sdk-widgets";
let api = new SensorlabApi();
let widgets = new SensorlabWidgets(api);
```

1.1.3 Use with browsers

Download latest master release:

<https://github.com/sensorlabio/sensorlabio-javascript-sdk-widgets/archive/master.zip>

Unzip:

- *builds/index.min.js*

- *builds/css/index.min.css*

Use them inside your html code:

```
<link href="build/css/index.min.css" rel="stylesheet">
<script src="build/index.min.js"></script>
```

And inside your JS code:

```
<script type="text/javascript">
  var sdk = SensorlabSDK;
  var api = new sdk.SensorlabApi();
  var widgets = new SensorlabWidgets.SensorlabWidgets(api);
</script>
```

1.2 Widgets

1.2.1 Thermometer Widget

Code:

```
widgets.thermometer(dom_id, sensor_id):
```

First parameter is DOM ID in your html and second is Sensor ID to get data from.

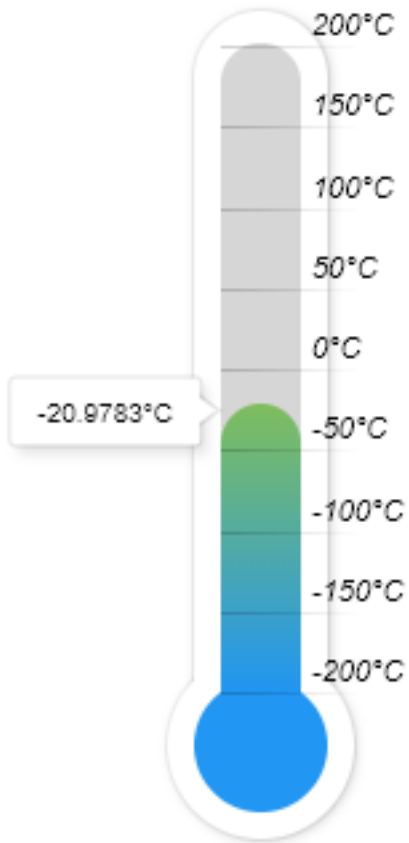
Example:

```
<link href="build/css/index.min.css" rel="stylesheet">
<script src="build/index.min.js"></script>

<div id="ThermometerWidget">
</div>

<script type="text/javascript">
  var widgets = new SensorlabWidgets.SensorlabWidgets(api);
  widgets.thermometer('ThermometerWidget', '5b4359a204b4c425d80c3718'):
</script>
```

It will look like this:



1.2.2 Temperature Chart Widget

Code:

```
widgets.temperature_chart(dom_id, sensor_id):
```

First parameter is DOM ID in your html and second is Sensor ID to get data from.

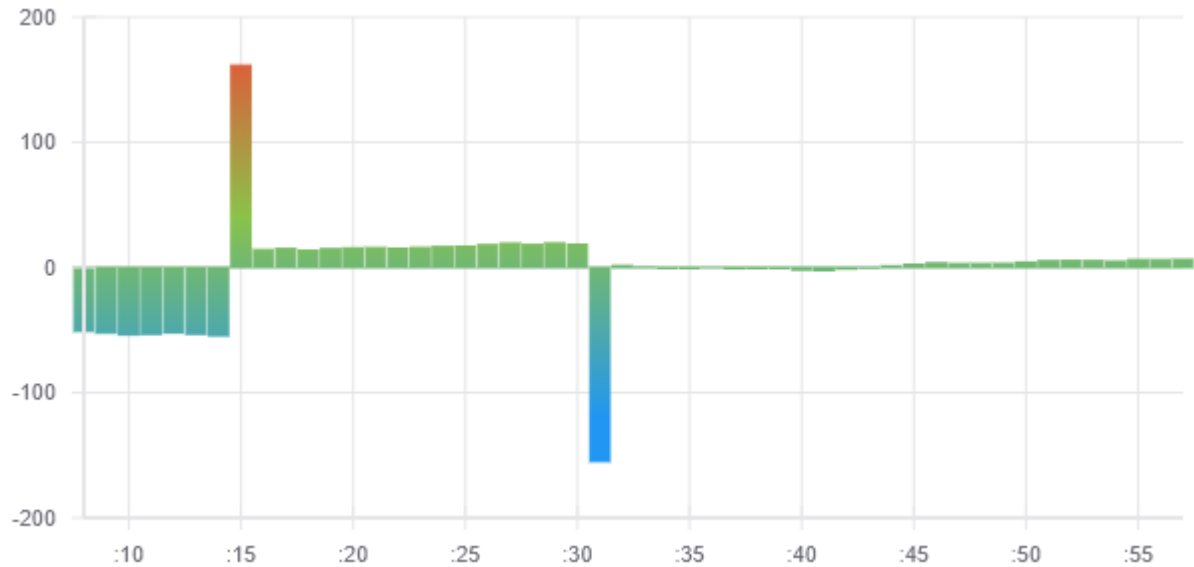
Example:

```
<link href="build/css/index.min.css" rel="stylesheet">
<script src="build/index.min.js"></script>

<div id="TemperatureChartWidget">
</div>

<script type="text/javascript">
  var widgets = new SensorlabWidgets.SensorlabWidgets(api);
  widgets.temperature_chart('TemperatureChartWidget', '5b4359a204b4c425d80c3718'):
</script>
```

It will look like this:



1.2.3 Battery Charge Widget

Code:

```
widgets.battery_charge(dom_id, sensor_id):
```

First parameter is DOM ID in your html and second is Sensor ID to get data from.

Example:

```
<link href="build/css/index.min.css" rel="stylesheet">
<script src="build/index.min.js"></script>

<div id="BatteryChargeWidget">
</div>

<script type="text/javascript">
  var widgets = new SensorlabWidgets(api);
  widgets.battery_charge('BatteryChargeWidget', '5b4359a204b4c425d80c3718'):
</script>
```

It will look like this:



1.2.4 Battery Charge Chart Widget

Code:


```
widgets.battery_charge_chart(dom_id, sensor_id):
```

First parameter is DOM ID in your html and second is Sensor ID to get data from.

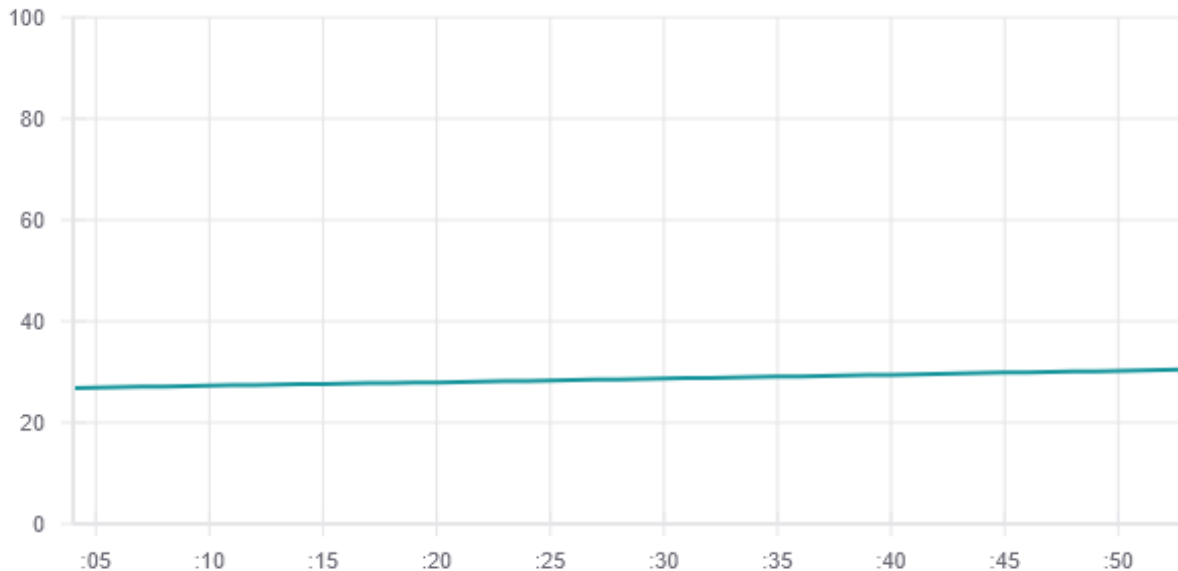
Example:

```
<link href="build/css/index.min.css" rel="stylesheet">
<script src="build/index.min.js"></script>

<div id="BatteryChargeChartWidget">
</div>

<script type="text/javascript">
  var widgets = new SensorlabWidgets.SensorlabWidgets(api);
  widgets.battery_charge_chart('BatteryChargeChartWidget', '5b4359a204b4c425d80c3718
  ↪ ');
</script>
```

It will look like this:



1.2.5 Battery Voltage Widget

Code:

```
widgets.battery_voltage(dom_id, sensor_id):
```

First parameter is DOM ID in your html and second is Sensor ID to get data from.

Example:

```
<link href="build/css/index.min.css" rel="stylesheet">
<script src="build/index.min.js"></script>

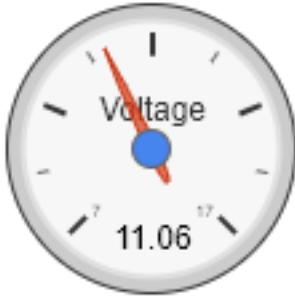
<div id="BatteryVoltageWidget">
</div>
```

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```
<script type="text/javascript">
  var widgets = new SensorlabWidgets.SensorlabWidgets(api);
  widgets.battery_voltage('BatteryVoltageWidget', '5b4359a204b4c425d80c3718');
</script>
```

It will look like this:



1.2.6 Battery Voltage Chart Widget

Code:

```
widgets.battery_voltage_chart(dom_id, sensor_id):
```

First parameter is DOM ID in your html and second is Sensor ID to get data from.

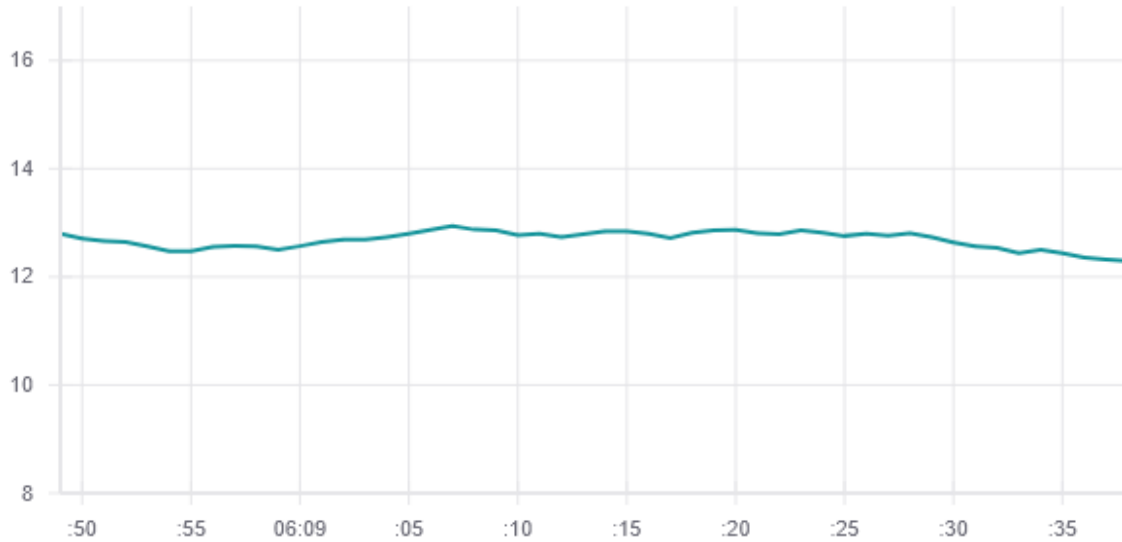
Example:

```
<link href="build/css/index.min.css" rel="stylesheet">
<script src="build/index.min.js"></script>

<div id="BatteryVoltageChartWidget">
</div>

<script type="text/javascript">
  var widgets = new SensorlabWidgets.SensorlabWidgets(api);
  widgets.battery_voltage_chart('BatteryVoltageChartWidget',
    ↪ '5b4359a204b4c425d80c3718');
</script>
```

It will look like this:



1.2.7 Map Widget

Note: This widget uses Google Maps API. You must include this API in your html page.

Code:

```
widgets.map(dom_id, sensor_id):
```

First parameter is DOM ID in your html and second is Sensor ID to get data from.

Example:

```
<script src="https://maps.googleapis.com/maps/api/js?key=%YOUR_API_KEY%"></script>
<link href="build/css/index.min.css" rel="stylesheet">
<script src="build/index.min.js"></script>

<div id="MapWidget">
</div>

<script type="text/javascript">
  var widgets = new SensorlabWidgets.SensorlabWidgets(api);
  widgets.map('MapWidget', '5b4359a204b4c425d80c3718');
</script>
```

It will look like this:



2.1 Widgets classes

2.1.1 ThermometerWidget class

class `ThermometerWidget` (*api*, *ws*)

Arguments

- **api** – SensorlabApi
- **ws** – SensorlabWebsocket

`ThermometerWidget.render`
Render widget.

2.1.2 TemperatureChartWidget class

class `TemperatureChartWidget` (*api*, *ws*)

Arguments

- **api** – SensorlabApi
- **ws** – SensorlabWebsocket

`TemperatureChartWidget.render`
Render widget.

2.1.3 BatteryChargeWidget class

class `BatteryChargeWidget` (*api*, *ws*)

Arguments

- **api** – SensorlabApi
- **ws** – SensorlabWebsocket

BatteryChargeWidget.**render**
Render widget.

2.1.4 BatteryChargeChartWidget class

class BatteryChargeChartWidget (*api, ws*)

Arguments

- **api** – SensorlabApi
- **ws** – SensorlabWebsocket

BatteryChargeChartWidget.**render**
Render widget.

2.1.5 BatteryVoltageWidget class

class BatteryVoltageWidget (*api, ws*)

Arguments

- **api** – SensorlabApi
- **ws** – SensorlabWebsocket

BatteryVoltageWidget.**render**
Render widget.

2.1.6 BatteryVoltageChartWidget class

class BatteryVoltageChartWidget (*api, ws*)

Arguments

- **api** – SensorlabApi
- **ws** – SensorlabWebsocket

BatteryVoltageChartWidget.**render**
Render widget.

2.1.7 MapWidget class

class MapWidget (*api, ws*)

Arguments

- **api** – SensorlabApi
- **ws** – SensorlabWebsocket

MapWidget.**render**
Render widget.

class Widgets (*api*)

Arguments

- **api** – SensorlabApi

`Widgets.thermometer`

type: ThermometerWidget

Thermometer widget.

`Widgets.temperature_chart`

type: TemperatureChartWidget

Temperature chart widget.

`Widgets.battery_charge`

type: BatteryChargeWidget

Battery charge widget.

`Widgets.battery_charge_chart`

type: BatteryChargeChartWidget

Battery charge chart widget.

`Widgets.battery_voltage`

type: BatteryVoltageWidget

Battery voltage widget.

`Widgets.battery_voltage_chart`

type: BatteryVoltageChartWidget

Battery voltage chart widget.

`Widgets.map`

type: MapWidget

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