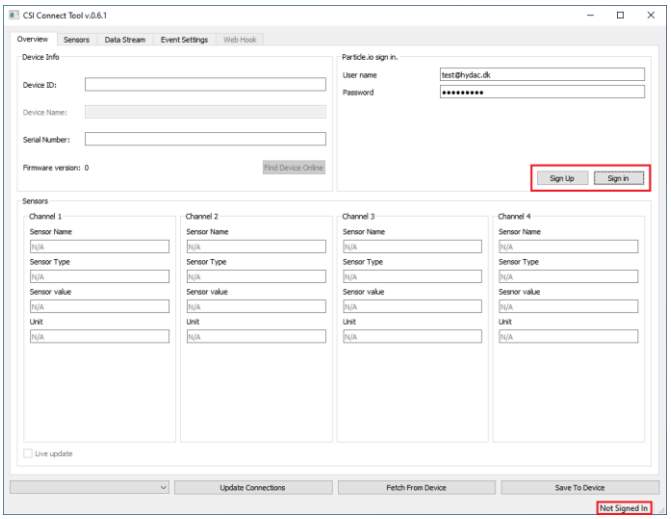
CSI-connect setup

Manual for setup via cloud

Prerequisite for setup

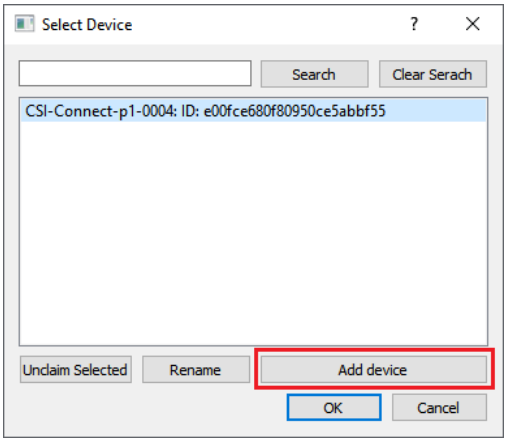
Before the device can be set up, it must be online meaning the Cloud-led is breathing cyan, next it is important that the device is not claimed to another account.

Using the tool requires an account, so head to the overview tab to sign in using an existing account in the tool or create a new one using the tools sign up, once signed in, a text in bottom right appears saying Signed in and the Sign in button will change to Sign out.



Device setup process - cloud

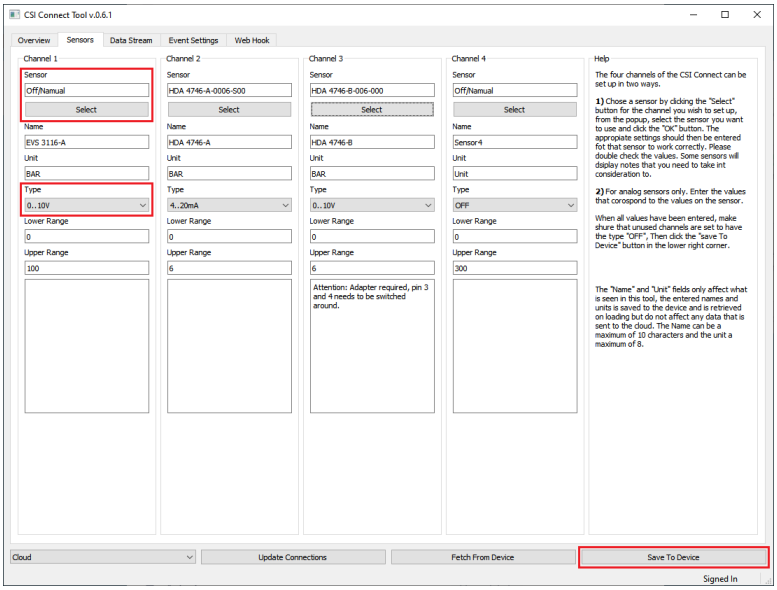
Once successfully signed into your account and the device is online, the setup process can get started. Start by clicking “Find Device Online” in the overview tab, a window should now appear with a list of all your claimed devices that are online, if the list is empty this either means no device is claimed to your account or all the claimed devices are offline.



For setting up a new device click “Add device” enter the name of the device which will be the serial number printed on the device and click “OK”, that device is now claimed to your account. All claimed devices can be renamed for easier identification or unclaimed if not used.

In the “Find Device Online” list click on the desired device and click “OK”, now the “Device info” in the overview tab should update with the correct data, and the drop-down menu in bottom left should say “Cloud” indicating the connection to the device using cloud.

Now the settings on the device can be acquired using the “Fetch From Device” which will update the tool with the settings from the device, this also happens whenever a new tab is clicked however this may take a while depending on how good the connection is, the tool will become unresponsive while fetching data.



To change the settings on the device, use the settings tabs these include Sensors, Data Stream and Event Settings, refer to the help sections on each tab for further explanation. If changing settings in the Sensors tab, this can be done manually or using the select button to find the connected sensor in a list, do be sure to check that it is the correct settings. Once the desired settings have been set click “Save To Device” this may take a while depending on the connection.

Webhook setup process

The steps from the prerequisite for cloud setup most be fulfilled meaning, signed into active account, have a claimed device and the device must be online. Once these steps are completed a webhook can be setup.

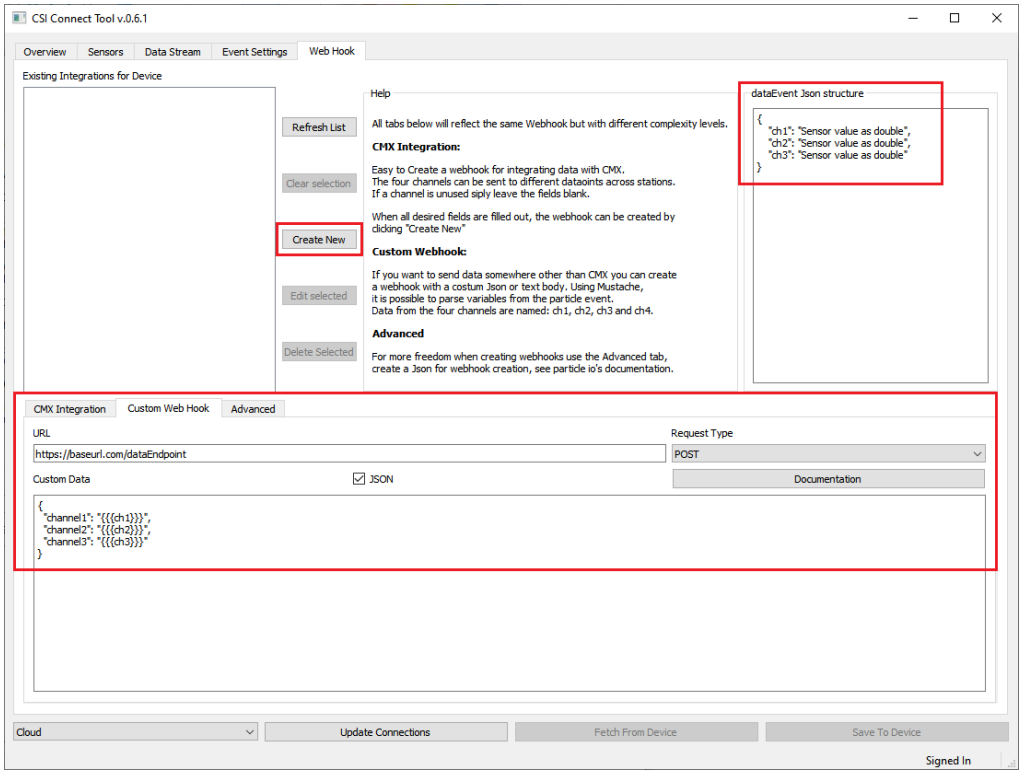
Start by setting the desired Sensors and Data Stream setting in those tabs, once done go to the Web Hook tab only accessible if signed in. a list of all existing integrations for the device will be shown, if non the list will be empty. Clicking on an existing webhook will load it in the bottom tab view called Custom Template where the webhook can be edited.

To create a new webhook use the bottom tab to fill in the information, there are three ways to set up a webhook:

- CMX Integration - is a simple template to set up a webhook that sends data to CMX.
  - Enter the URL for CMX server.
  - Enter CMX username and password.
  - Enter Channel ID and Datapoint ID for the used sensor channels. The structure of the sent data can be seen top right, this is the data the webhook can pass on.
- Custom Web Hook - is the simpler solution for sending data to a different endpoint.
  - Enter the URL the data is to be sent to.
  - Choose what request type the webhook is to send to the URL from the drop-down menu.
  - Choose whether the data is a custom string or a JSON, for further information about data type and webhook in general click on “documentation”, which will open particle.io documentation on webhooks.
  - In the Custom data section enter the data wanted to be sent. The structure of the sent data can be seen top right, this is the data the webhook can pass on.

- Advanced - is the way to create a webhook with almost unlimited freedom.
    - The webhook is made based on the entered JSON, the fields “deviceID”, “event”, “url” and “requestType” must be in the JSON.
    - It is required to set “event” to “dataEvent”.
    - For further information click on “documentation”.

An example of how to use the custom web hook, use the example json top right as a template for the final data json be sure to use mustache template (for data from channel1 use “{{{ch1}}}”) as shown on the picture.



When all the data has been entered using either of the 3 methods click “Create New” to create a new webhook or click “Edit Selected” which will overwrite the settings of the marked webhook with the new settings. Deleting webhook can also be done from this tab.

Device setup process - USB

To access the USB-port it is required to open the enclosure using tools, this is only intended for debugging and internal testing, it is recommended to keep the enclosure sealed and stick to the cloud setup method to ensure best reliability.

Using this method for setup only requires the device to be online, an active account is only required for creating a webhook, and the device must be claimed to your account.

For setting up the device insert the USB, placed on the inside of the device, and connect to the COM-port with the right device if more than one is connected, if no port shows up click “Update Connections” if still not showing up try a different USB-port and retry. Once connected the tool will behave like when using the cloud setup, using the settings tabs these include Sensors, Data Stream and Event Settings, refer to the help sections on each tab for further explanation.