Dynamic setpoint with ProfiLux 4

Estimated reading time: 2 min

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About the 'Dynamic Setpoint'

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The 'Dynamic Setpoint' is used to override the fixed setpoint of one sensor with a current value of another sensor of the same type, or with records consisting of date, time, and a user-defined setpoint. In this way, the target value can be dynamically updated automatically over a defined period of time (days, months, years). This makes it possible, for example, to simulate seasonal temperature curves.

This article will show you how to perform configuration and record management with GHL Connect and a ProfiLux 4.

What you'll need

Upstairs ↑

- ProfiLux 4 with at least firmware version V7.29
  - The firmware files are part of a current GHL Control Center installation.
- WiFi module version at least 7129 and an up-to-date web server interface at least V3.13.6.
- A local network connection via Wi-Fi to the ProfiLux 4 to upload the DNV data to the Wi-Fi module.

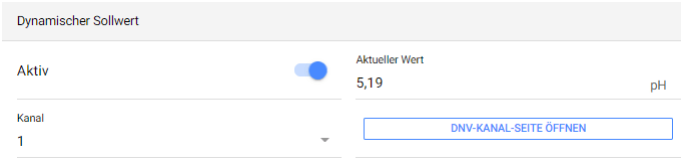
The necessary files are part of the WiFi update tool and can be accessed from here: https://www.aquariumcomputer.com/de/downloads/wifi-modul-esp-update/

Operation via the web server interface and GHL Connect

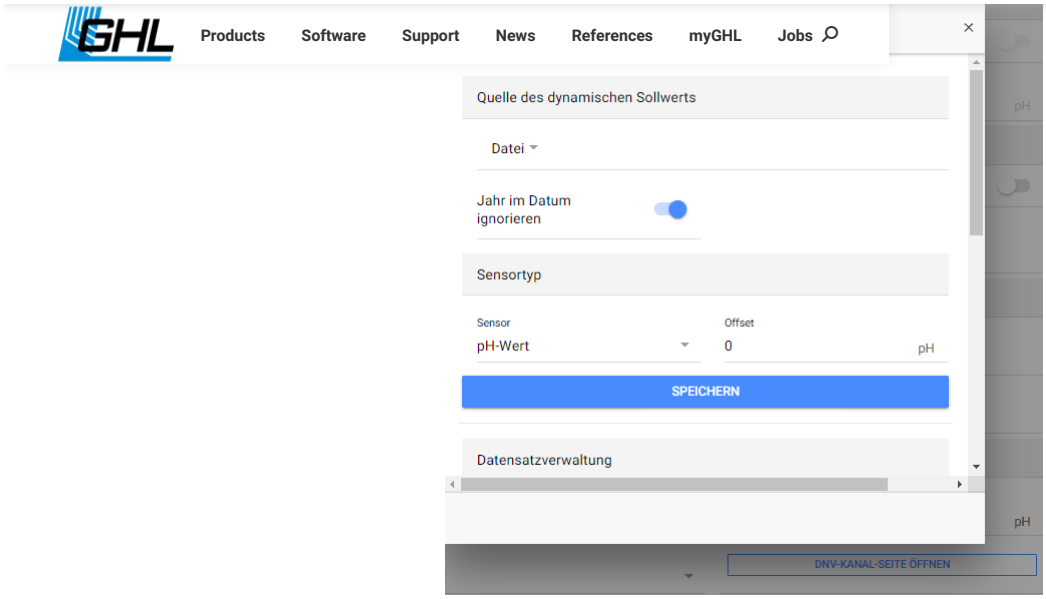
Upstairs ↑

Open the web server interface with a web browser and the assigned IP address of your ProfiLux 4 and connect to it.

In the app settings, enable the expert view to display the additional sensor settings for the 'Dynamic Setpoint'.



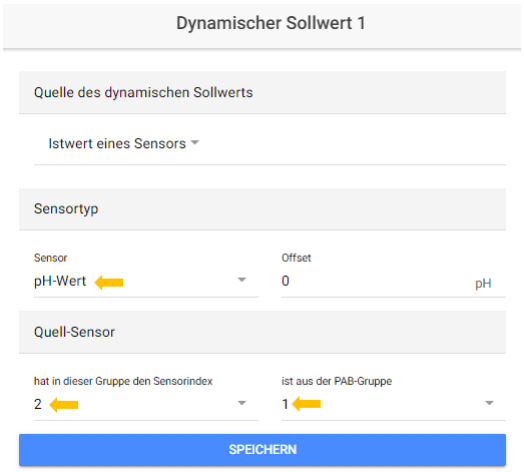
Open the details page of the desired sensor. At the bottom of the page, the basic setting for the 'Dynamic Setpoint' appears. Activate it, select the appropriate channel, and save the page.



Dynamic setpoint over the actual value of another sensor

Upstairs ↑

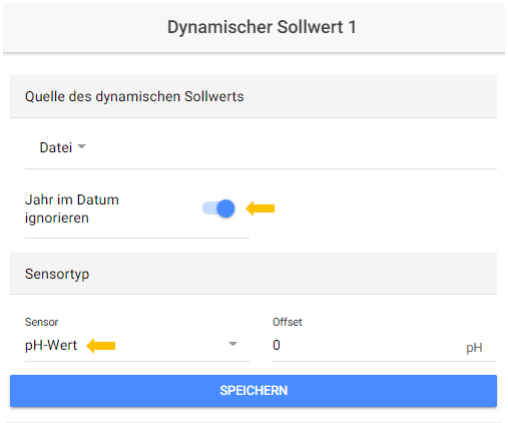
In this operating mode, select the appropriate sensor type and select the source sensor with Sensor Index and PAB Group.



Dynamic setpoint via a data file

Upstairs ↑

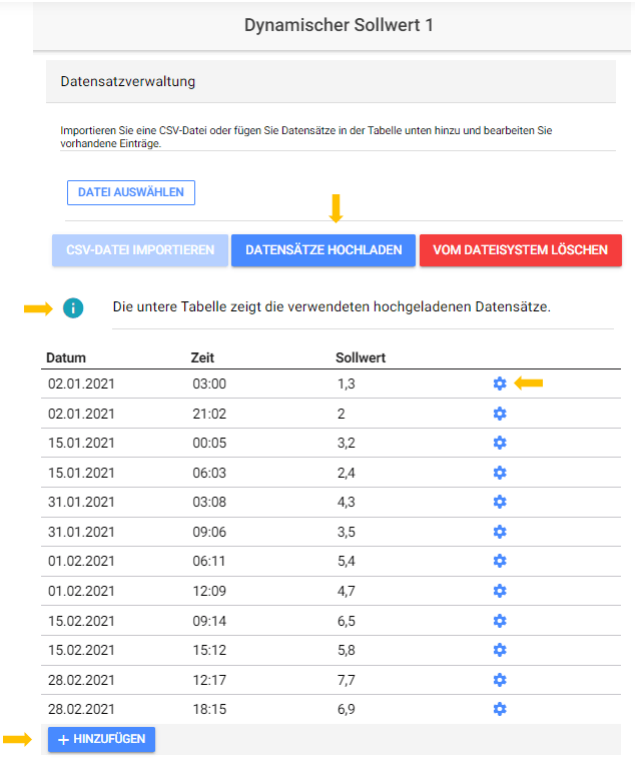
In this mode, the 'Dynamic Setpoint' is determined by the file system for the selected channel.



1. First, configure the 'File' as the source.
2. Sensor type to match the target sensor. This means that the sensor to which this 'Dynamic Channel' is to be applied must be the same type of sensor. Set here pH sensor if the connected sensor is also a pH sensor.

Records

If data already exists, it is retrieved from the web server and displayed in the table.



After the DNV channel page has been saved and the records have been uploaded, you can close the page and return to the sensor details page.

After a few seconds, the current 'Dynamic Setpoint' will appear according to your configuration, which can be applied in the desired control.

Importing a CSV file

Upstairs ↑

CSV is the abbreviation for Comma-Separated-Values. When you open a **CSV file** in a word processor, the data fields are interpreted using a comma or similar delimiter.

For import into GHL Connect, either commas or periods are automatically recognized as separators and displayed accordingly in the table on the DNV channel page and sorted by date and time.

File Structure

Important: There is no file header to enter!

01.12.2000; 00:01; 10,0

31.12.2000; 23:59; 30,0

Formatting the data fields

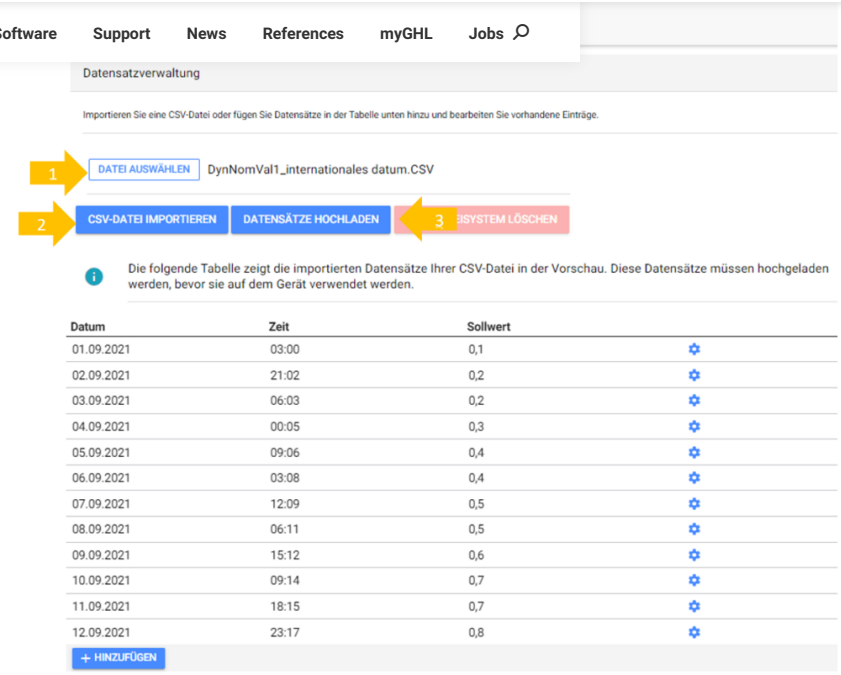
At this point, it is important that the values of the fields for date and time correspond to the set system language and that the separators are not used at the same time for decimal values in the target value, otherwise the correct format cannot be determined.

In GHL Connect, you can import the generated CSV file by opening the DNV channel page and clicking 'Select File' to find and open the CSV file on your data store.

Once selected, the table with the current records is not yet overwritten. This only happens when you click the 'Import CSV file' button.

Once you've done that, the table will display the imported records. At this point, you can edit certain data sets as desired and then upload them to the file system of ProfiLux 4 using the 'Upload data sets' button.

The new data sets are applied after about 10-30 seconds.



Service conditions

Upstairs

- The dynamically adjusted setpoints from the 'actual value of a sensor' are applied two minutes after the device is started.
- The sensor types of source and target sensors must be the same.
- After uploading new records, it can take up to 15 seconds for the setpoints to be updated.
- When settings are saved to a DNV channel, the channel is initially invalidated and the new parameters are applied only after a few seconds.

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