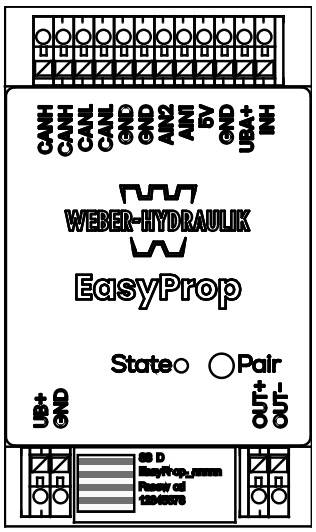
1. Connection

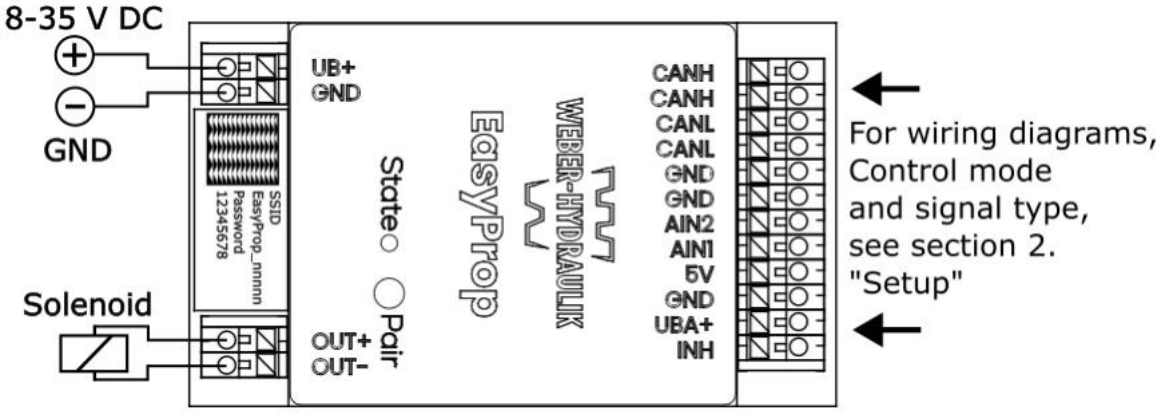
Terminal plan EasyProp R.



Terminal	Function
UB+	Power supply 8- 35 V DC
GND	Power supply ground
OUT+	Output solenoid +
OUT-	Output solenoid -
CANH	CAN-Interface differential signal high (shared with AIN2)
CANL	CAN-Interface differential signal low
2 x GND	Device ground (same as from power supply)
AIN2	Analog input 2 (control voltage or current, shared with CAN-H)
AIN1	Analog input 1 (control voltage or current)
5V	5V DC supply (for supply of external potentiometer etc.)
GND	Device ground (same as from power supply)
UBA+	8-35 V DC sensor supply (depends on power supply voltage, fused at 100mA @ 25°C)
INH	High – Signal enables Output Low – Signal disables Output

Wiring diagram EasyProp R

- Connect the device to the **supply voltage**.
- Connect the **solenoid** to device.
- Connect **control signal** (Analog current/voltage, CAN, Sensor)



Connect to WIFI-Network EasyProp R

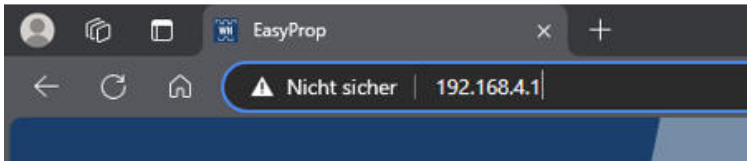
- Press the **"Pair"** button to activate the Wi-Fi network – this is indicated by the green LED blinking.
- Use your laptop, tablet, or mobile phone to search for the Wi-Fi network named **"EasyProp_00000"** (the zeros represent the serial number of the device).



- Connect to the network and enter the password. If the password has not been changed, it is printed on the device label



- Once the connection is established, open your web browser, enter the following IP address into the address bar: 192.168.4.1, and press Enter. In some browsers, especially on mobile devices, a protocol abbreviation such as “http://” or “https://” is automatically added. These must be removed before entering the IP address.



- The device should now be connected. The Connection Status is displayed in the banner on the top of the page

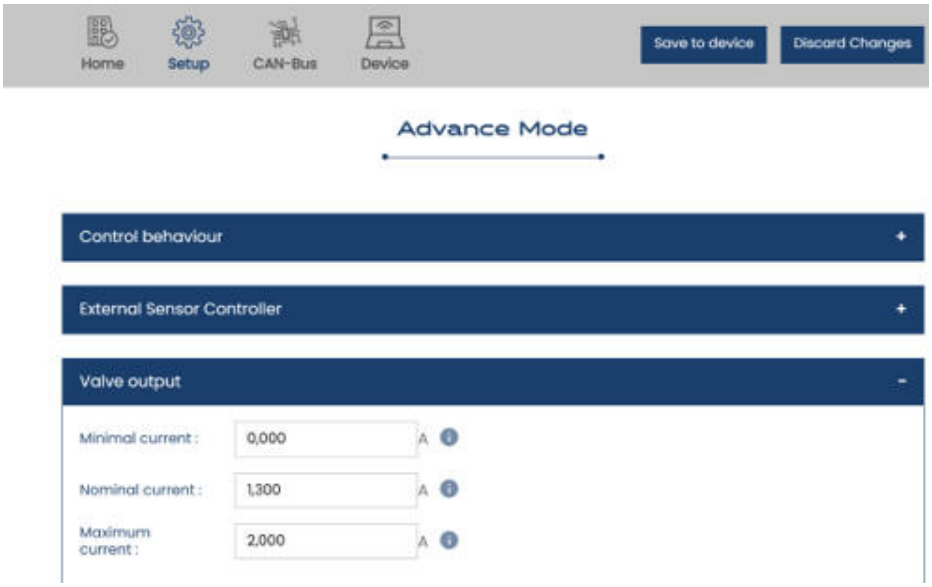


2. Setup

Before changing settings and values, make sure you understand the information provided after clicking on corresponding - icons.

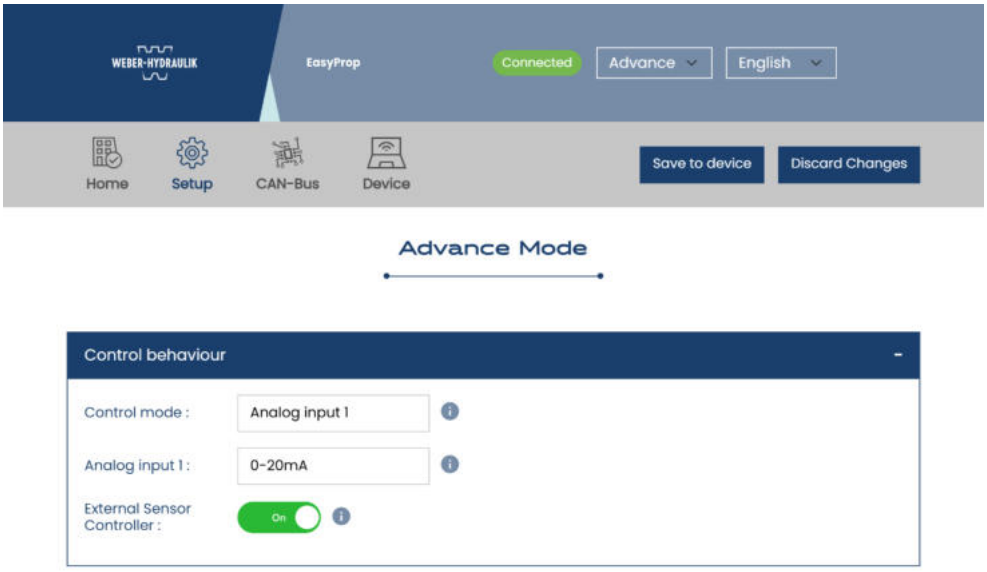
Valve Output

- First, configure the values for the **valve output** to match it to the connected valve:
  - **Minimum current**: Should be slightly below the current at which the valve starts to operate visibly.
  - **Nominal current**: Should correspond to the maximum current needed for your application. If unknown, use the valve’s nominal current.
  - **Maximum current**: Must be set to at least **25% above** the nominal current. For extreme dither amplitudes, even higher values may be required.

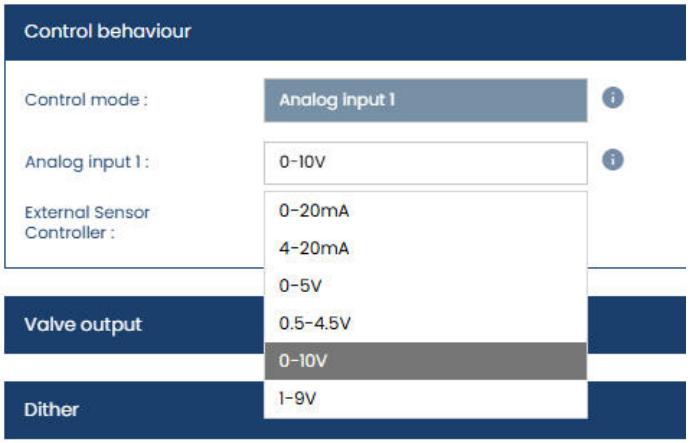


Control Behaviour

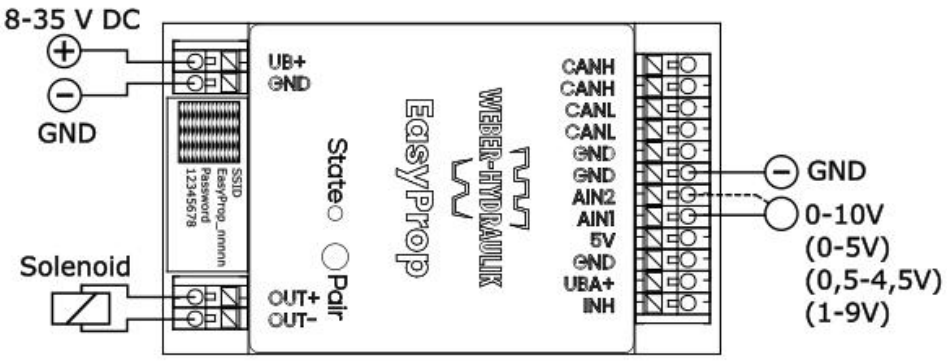
- Select the **control mode and signal type** according to the type of input signal you intend to use



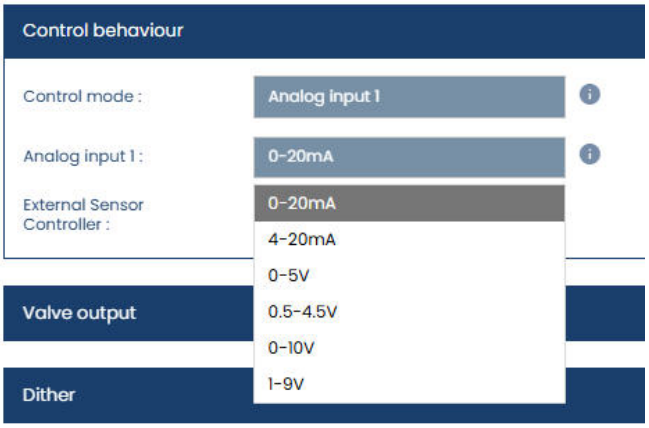
  - Control Mode **Analog Input 1 or 2** (dashed lines), **voltage** control signal



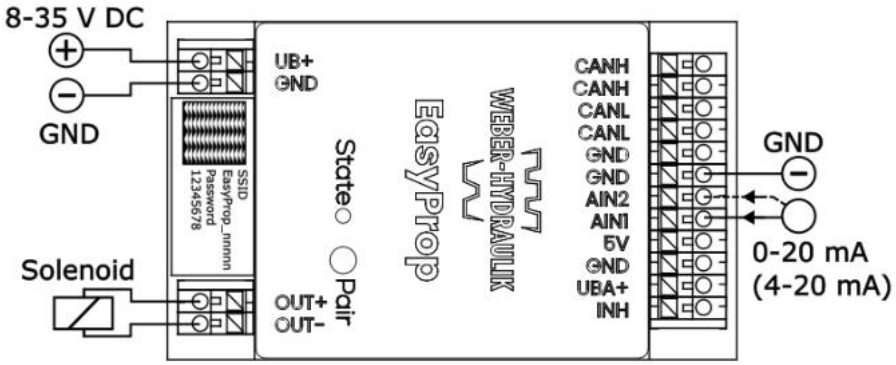
  - Wiring diagram: **Analog input 1 or 2 voltage signal**



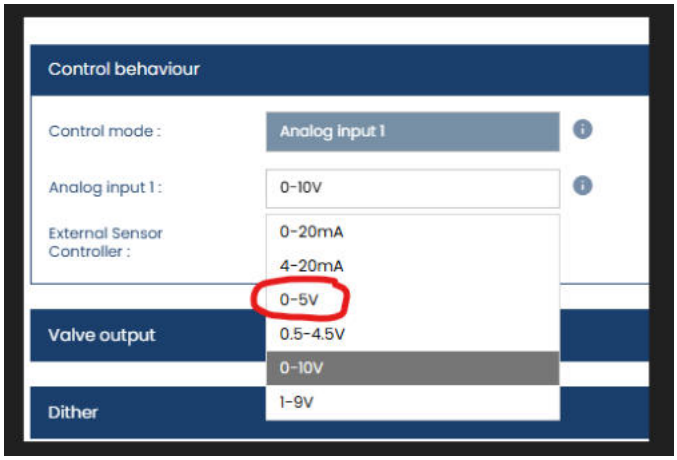
- Control Mode **Analog Input 1 or 2** (dashed lines), **current** control signal



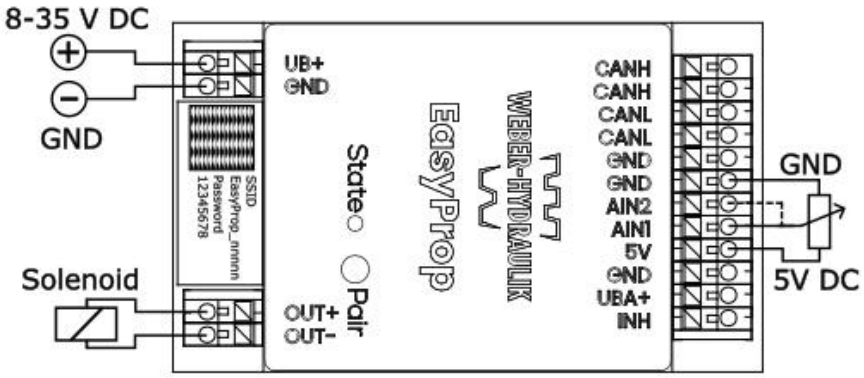
- Wiring diagram: **Analog input 1 or 2 current signal**



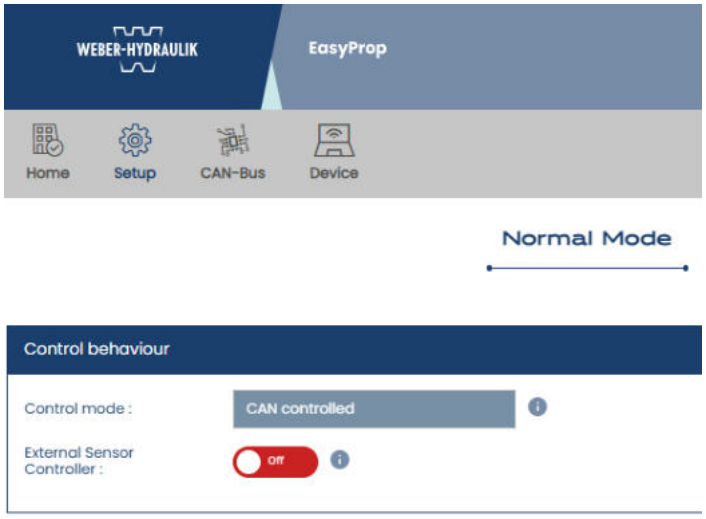
- Control Mode **Analog Input 1 or 2** (dashed lines), **voltage** control signal. Controlled via **external potentiometer**. Choose **0-5V**!



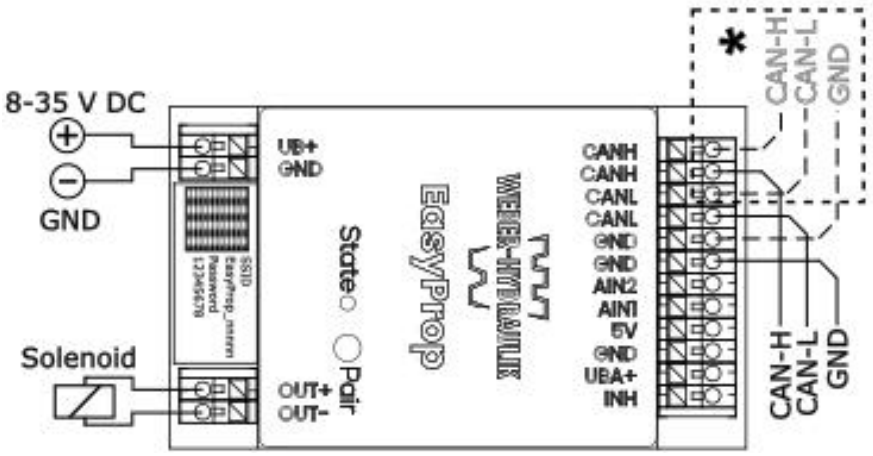
- Wiring diagram: **Analog Input 1 or 2** (dashed lines), **voltage** signal.
  Controlled via **external potentiometer**.



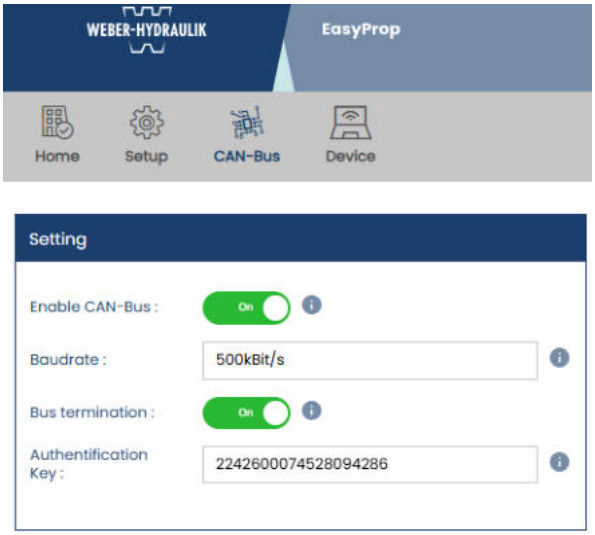
- Control Mode **CAN** controlled.



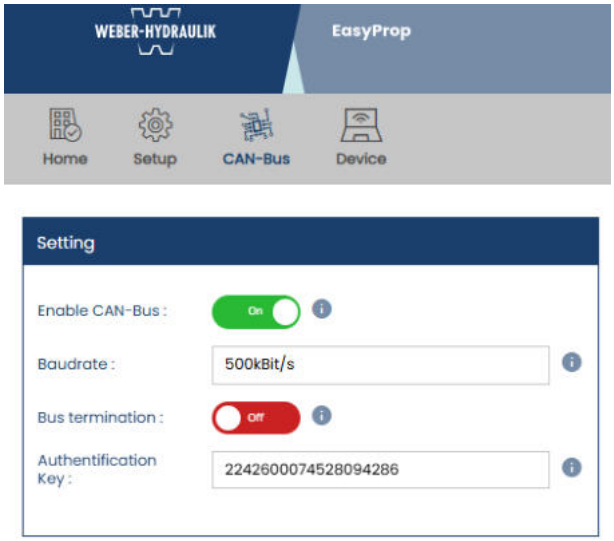
- Wiring diagram: **CAN** controlled.



***Note:**
If the EasyProp is the last device on the CAN-Interface, switch the **bus termination "on"**.
Choose the correct **baudrate**

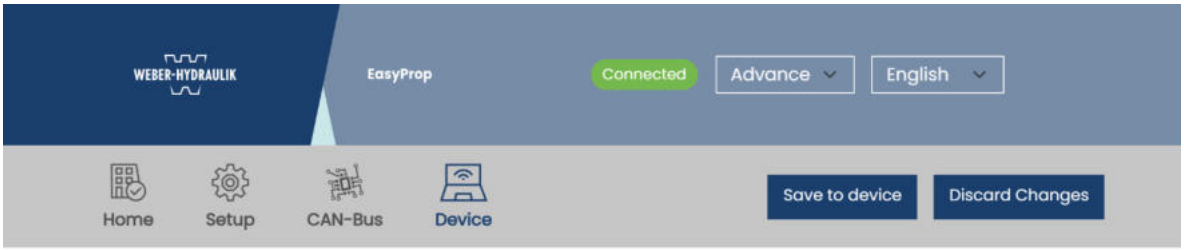


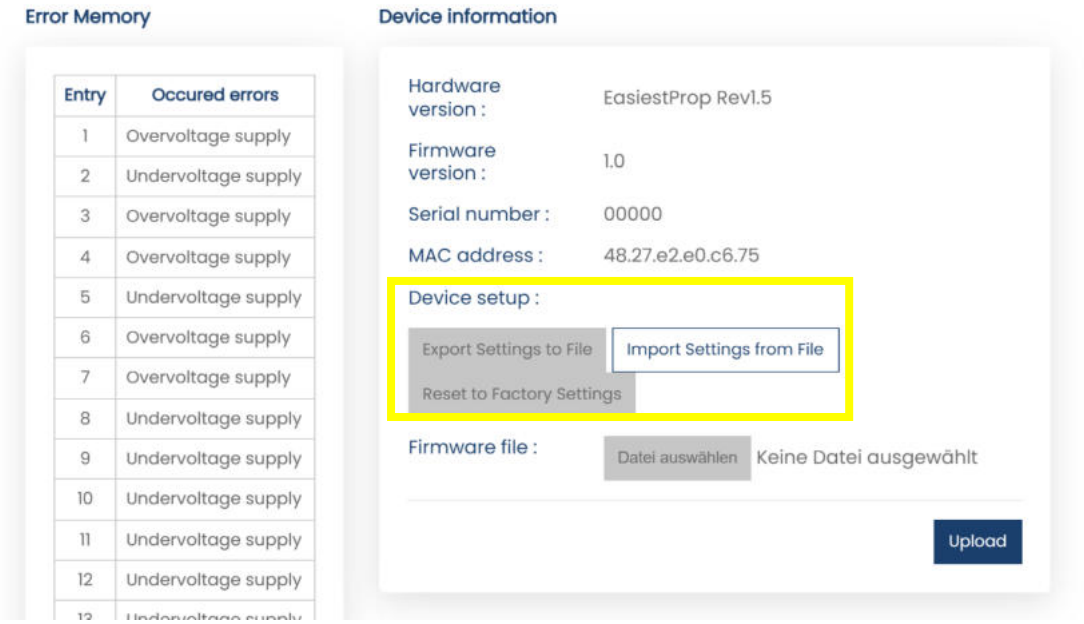
If the EasyProp is **not** the last device on the CAN interface. The **termination** must be **switched off**. Choose the correct **baudrate**.



3. Parameter Files

If you already have a setup file you wish to upload:
Go to the **"Device"** tab and click the **"Import Settings from File"** button. Then select and upload the desired file.





4. Optimizing Valve Performance

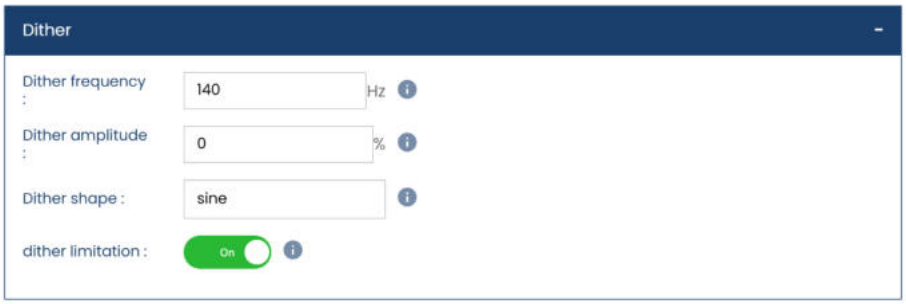
Ramp Times

- Configure **ramp times** to control the speed of setpoint changes. This can help protect the system from sudden pressure, flow fluctuations or induced oscillations.



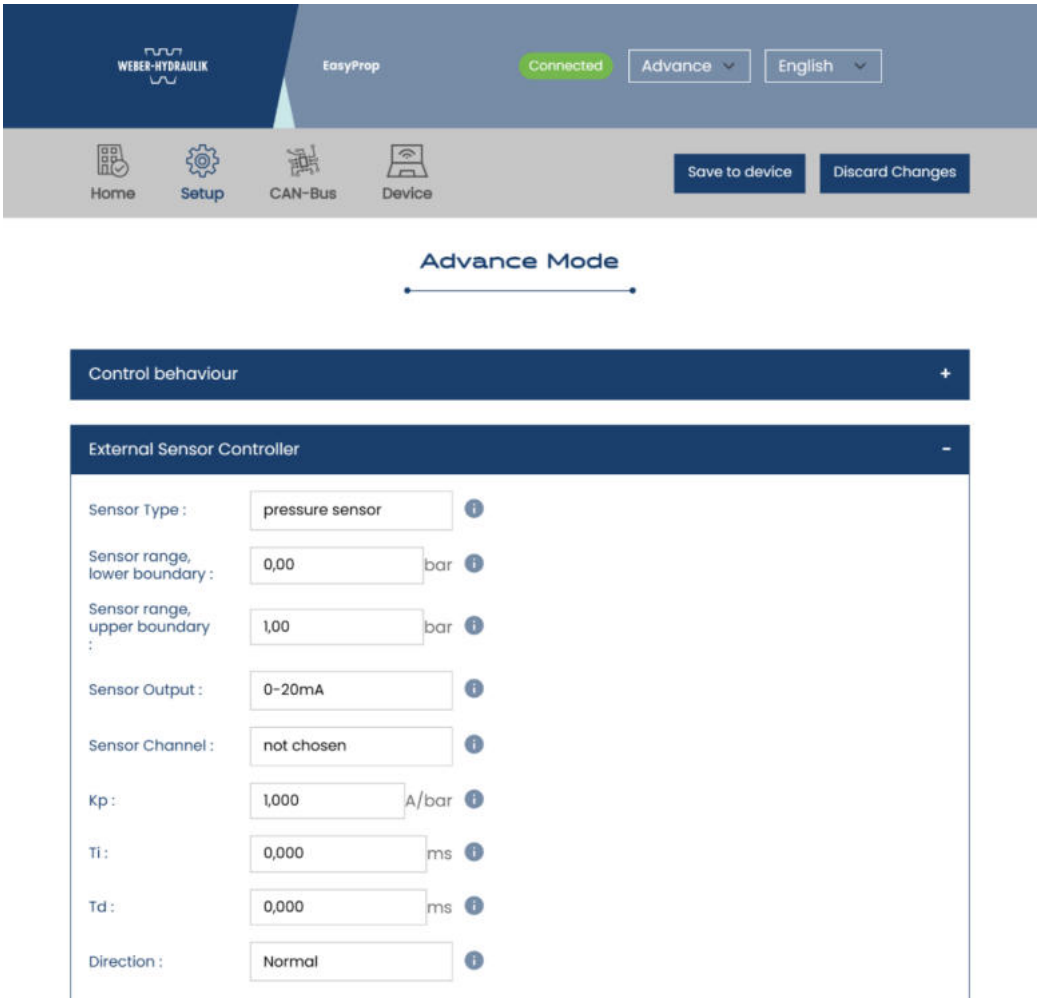
Dither

- Adjust the **dither values** if the valve exhibits irregular behavior:
    - **Lower the frequency** and **increase the amplitude** if you notice erratic movements or other signs that the spool may not be moving freely.
    - If oscillations occur at a frequency similar to the dither frequency, **increase the frequency** and **reduce the dither amplitude** to minimize this effect.

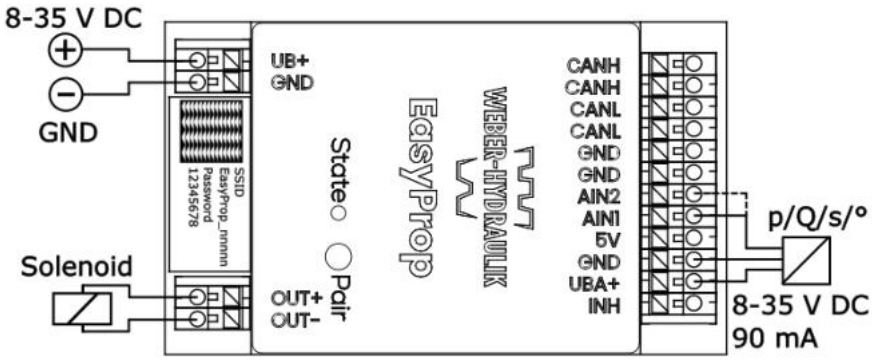


5. External Sensor Control

- Choose the Control Mode in „**Control behavior**“ settings: Analog Input 1 or Analog Input 2 or CAN.
- If you plan to use the external sensor controller, activate the **toggle switch** in the **"Control Behavior"** settings. The **"External Sensor Control Settings"** section will appear.
- Enter the relevant **sensor data** and **controller parameters** as required. Use the live data below to assist in parameter optimization.
- Choose the sensor channel: **Analog Input 1** or **Analog Input 2**. For Analog Input 2, CAN interface must be switched off.
- Choose the sensor output: **Voltage** or **current** signal.
- For valves, which have an inverse effect on the measured process value, you need to set the **controller direction** to **inverted**. (i.e. degressive pressure regulators, degressive pressure relief valves and normally open throttle valves)



- Wiring diagram: Only **external sensor** shown (AIN1/2). Sensor Output (Voltage/Current) must be chosen according to the wiring and sensor type.



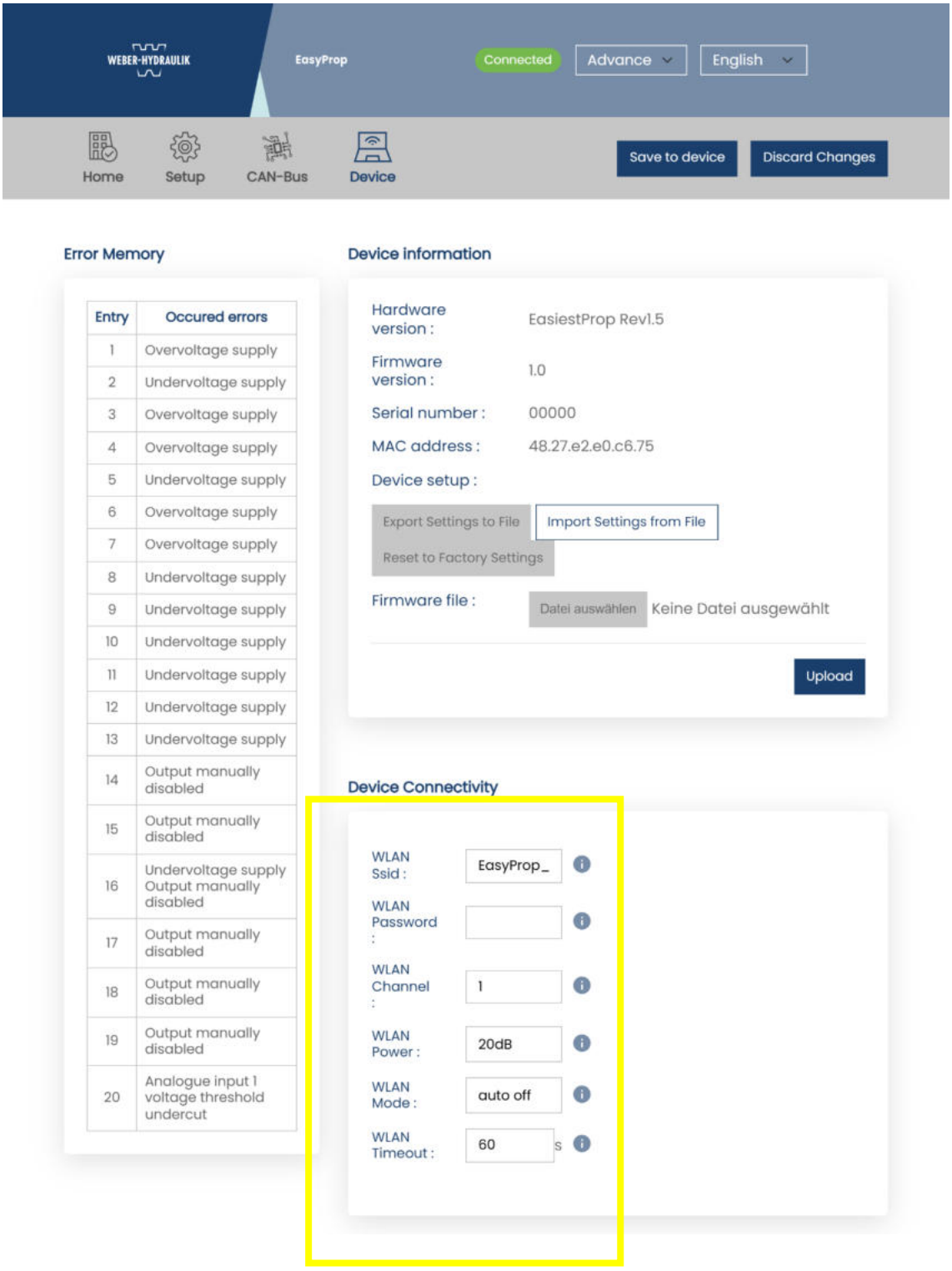
6. Security

In the **„Device“-Tab** you can find the security settings (Device Connectivity) of EasyProp

- **Change the password** to secure your device.

  ⚠️ *Note: Changing the password after setting up your CAN-Bus will also change the authentification key!*

- Adjust the **Wi-Fi mode** to your preference:
  - **"Auto off" mode** is recommended for standard use. The wifi is activated if the device is connected to a power supply or the “Pair”-Button is pressed. After disconnecting the Interface, it deactivates after the adjustable **Timeout** phase.
  - To avoid Wi-Fi activation when the system is restarted, set the EasyProp to **"Button only"** mode. The timeout also applies.



7. Mechanical Data

Size: 90 mm x 54 mm x 37 mm

Push-in CAGE CLAMP: 0,2 ... 1,5mm^2/24 ... 16 AWG