



# CLA-VAL CV-Log-35

Communicating Data Logger

## User Manual



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## 1 INTRODUCTION

### 1.1 PRECAUTIONS BEFORE STARTING



Installation and electrical connection should be carried out in accordance with local regulations and only by qualified technicians!



The protection level is guaranteed only if product has been installed by technicians instructed by CLA-VAL personnel and thereafter correctly maintained. During installation and maintenance, the inside of product must remain completely dry. Humidity may drastically shorten the life of the battery and electronics.

### 1.2 BATTERY



Do not connect or disconnect the battery of the product in hazardous locations such as a damp room.



35 Series products are designed to operate only with the original CLA-VAL battery supplied by CLA-VAL, using any other battery, even with the same technical characteristics, may prevent the product from operating correctly and is not permitted.



Using batteries other than those supplied by CLA-VAL may lead to a risk of explosion and void the product warranty. The battery provided with the product is not rechargeable and must be disposed properly at end of life.

### 1.3 GENERAL DISCLAIMER

In accordance with our policy of continuous development and improvement, CLA-VAL reserves the right to modify or improve these products at any time without prior notice. CLA-VAL assumes no liability or responsibility for any errors or omissions in the content of this document.

### 1.4 ENVIRONMENTAL PROTECTION





The product is delivered with batteries marked with this symbol

Help to preserve and protect the environment. Recycle used batteries and accessories; this means that according to local laws and regulations, they should be disposed of separately from household waste.

### 1.5 TYPOGRAPHY

Throughout this manual, the following typographical conventions and symbols have been adopted to help readability:

- "**Bold**": Menu, command, tab and button
- BOLD ITALIC***: Important information
- (1) or (A): Circled numbers and letters in the text refer to the parts described in Figure 1 and 2 respectively (example: Figure 1 - page 5)
-  **Note**: Indicates useful information and advice
- : Indicates safety advice that must be strictly followed

### 1.6 ACRONYMS

**LED**: Light Emitting Diode

**NCR**: Notification Claim Return

**SMS**: Short Messages Service

**GPRS**: General Packet Radio Service

### 2 CV-LOG-35 CHARACTERISTICS

- (1) Body
- (2) Head (main board + front panel)
- (3) Antenna (optional)

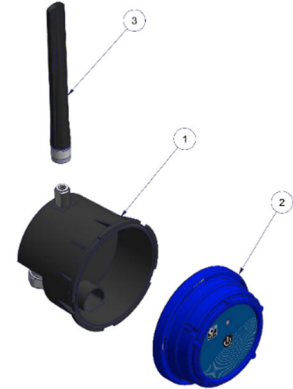


Figure 1 CV-Log-35 parts

- (A) SIM Card connector
- (B) SD Card connector
- (C) Battery connector
- (D) Micro USB Connector
- (E) Tag connect (8 pin)
- (F) Memory battery coin holder coin

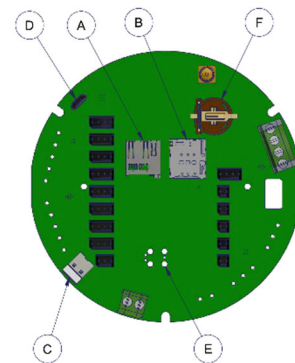


Figure 2 CV-log-35 interfaces

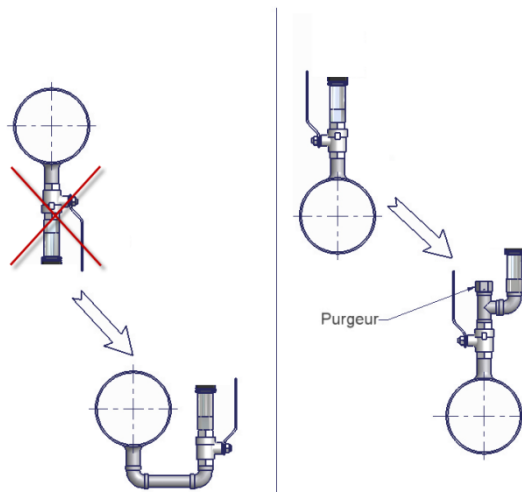
### 3 WIRING CHARACTERISTICS

Refer to the CVLog3500 wiring diagram for connection details.

### 4 SENSOR MOUNTING

#### 4.1 PRESSURE SENSORS

The pressure sensors can be mounted either vertically or horizontally.



#### 4.2 METER WITH PULSE EMITTER

Any pulse emitter may be connected to the CV-Log-35 counter input if its electrical system has either a "Normally Open" or "Normally Closed" contact. For setting up the pulse emitter, refer to the meter manufacturer's instructions and the CV-Log-35 instructions located in the *CVLog3500* wiring diagram.



**Note:**

- Always connect meter last to avoid arbitrary pulse counts.
- In any case you can reset the counter from the user interface.

### 5 CV-LOG-35 MOUNTING



When mounting a CV-Log-35 with sensors other than those provided by CLA-VAL, be careful not to damage or deform the housing in any way (warranty will become void).

#### 5.1 CELLULAR NETWORK QUALITY

Check the cellular network quality at the installation location prior to installing the product.

Network strength indication from a cell phone gives initial information about signal reception quality on a site. For more accurate information, use the CV-Log-35 configuration mode to get the exact reception quality of the product. Refer to chapter 9.11 « Checking the quality of the network » for more details.

The CV-Log-35 configuration mode will indicate (amongst other things), the network reception quality as seen by the CV-Log-35 in dBm units. Installation is not recommended for signal quality under -95 dBm. As the cellular network quality may fluctuate strongly across the site, it is recommended to test at different locations.

If network quality at the installed location is not sufficient, it may be necessary to relocate the CV-Log-35 or extend its antenna with adequate CLA-VAL extension cables.

The minimum signal strength is - 80 dBm for optimum data communication at the valve level.

### 5.1.1 NETWORK QUALITY BETWEEN -80 dBm and -95 dBm

If the signal quality at the valve level is between -80 dBm and -95 dBm, check if the CV-Log-35 can be installed closer to the well opening, while maintaining a maximum distance of 3 m to the pressure sensors. If this is not possible, an antenna extension with optional CLA-VAL antenna extension cables might be necessary.

### 5.1.2 NETWORK QUALITY LESS THAN -95 dBm

If the signal quality at the valve level is lower than -95 dBm, it is required to deport the antenna outside of the well. Please contact CLA-VAL for more information.

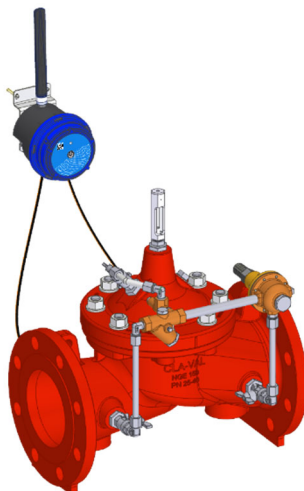
## 5.2 ORIENTATION IN SPACE

CV-Log-35 should be mounted in an upright position (antenna side up, cable gland down) to guarantee good cellular connectivity.

CV-Log-35 may have difficulties transmitting when submerged (e.g. in a manhole after rainfall). To guarantee reliable transmission it is recommended to install it as high as possible in the well.



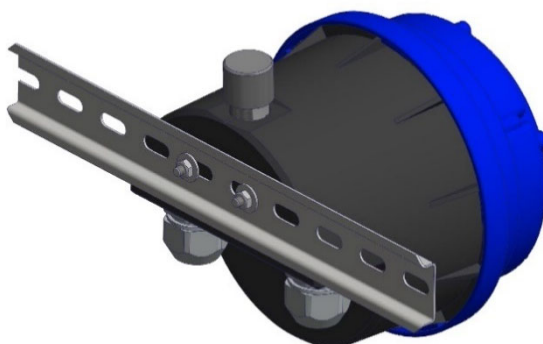
## 5.3 WALL MOUNTED INSTALLATION



CV-Log-35 can be fixed on walls using the wall mounted bracket.

Drill the holes at the correct distance (72 mm) or use the lower housing as a drilling gauge.

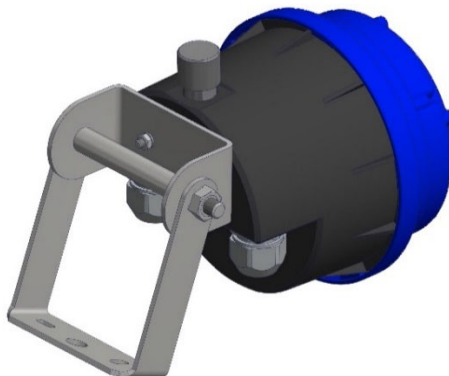
### 5.3.1 DIN RACK MOUNTED INSTALLATION



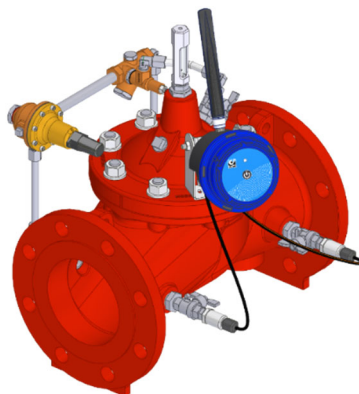
An alternative optional bracket is available for electrical box installation.



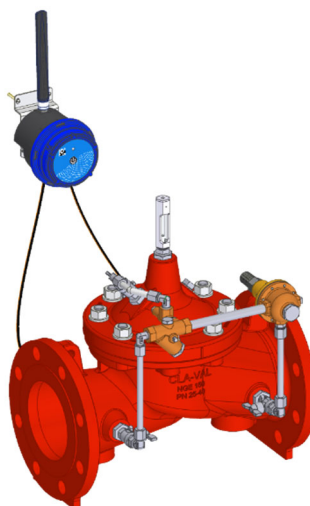
### 5.3.2 ORIENTABLE BRACKET INSTALLATION



An optional orientable wall-mounted or valve bracket for CV-Log-35 is also available.



### 5.3.3 STANDARD INSTALLATION



The standard installation of the CV-Log-35 on the wall should be, as close as possible to the well opening, but not further than 3 m from the pressure sensor(s) connection(s) on the valve.



## 6 CONNECTION

### 6.1 PULSE COUNTING



#### Note:

Refer to the meter manufacturer's product information for complete information about functionality and connectivity.

The counter contact ("Normally Open" or "Normally Closed") must be connected between Tx/Cnt and GND (refer to CVLog3500 wiring diagram).

## 7 SIM CARD

### 7.1 PREPARING THE SIM CARD

A 3FF/Micro-SIM format is necessary for data communication compatible with LTE cat-M1, NB-IoT, or GPRS. CLA-VAL can optionally provide a SIM card. If another SIM card than the one supplied by CLA-VAL is used refer to chapter 9.10 « Custom SIM Card » for configuration.

### 7.2 INSERTING THE SIM CARD

Insert the SIM card with the golden contacts facing downwards into the card holder. Refer to Figure 2 - Chapter 2 « CV-Log-35 Characteristics » and the symbol printed on the CV-Log-35 for correct SIM card orientation. The SIM card must be completely inserted into the card holder. If the card is overlapping the card holder after insertion, remove it and check the card's orientation.




Avoid touching the metal contacts to prevent grease buildup. If touched, clean them with a dry cloth or a cotton swab lightly moistened with isopropyl alcohol, then allow to dry before insertion.

## 8 STARTING OPERATION

### 8.1 CV-LOG-35 ASSEMBLY



If the product has been opened before closing, ensure the inside of the housing and seal are clean and dry. The presence of dust or humidity when installing may damage the product.

1. Connect the antenna (3) to the product (if present) (1).
2. Insert the SIM card in the base (if present) (B).
3. Close the body (1) by rotating the head (2), see Figure 3 below.  **Do not force closure!** If the two parts of the housing cannot be fit together properly, make sure there is no pinched cable or dust.

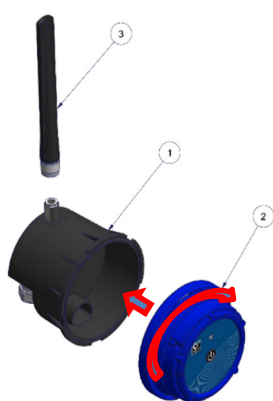
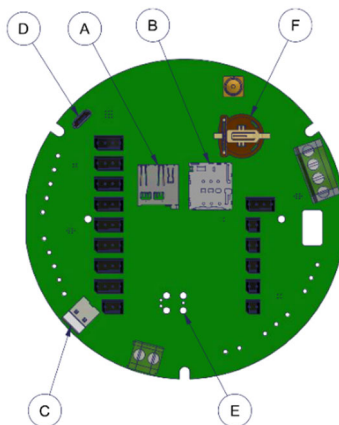


Figure 3 Body (1) and head (2) assembly



### 8.2 OPERATING MODE

The CV-Log-35 has 3 modes of operation:

- "Standby" mode
- "Acquisition" mode
- "Configuration" mode

In "Standby" mode you can remove the SIM card or SD card, as well as connect or disconnect physical inputs.

The "Acquisition" mode is the operating mode of the CV-Log-35. In this mode, the device acquires the signals from the connected sensors and saves them to the internal memory. If the data communication option is enabled, the recorded data is sent across the cellular network at the set interval time.

The "Configuration" mode is used to activate the WiFi local network generated by the device, to configure the CV-Log-35.

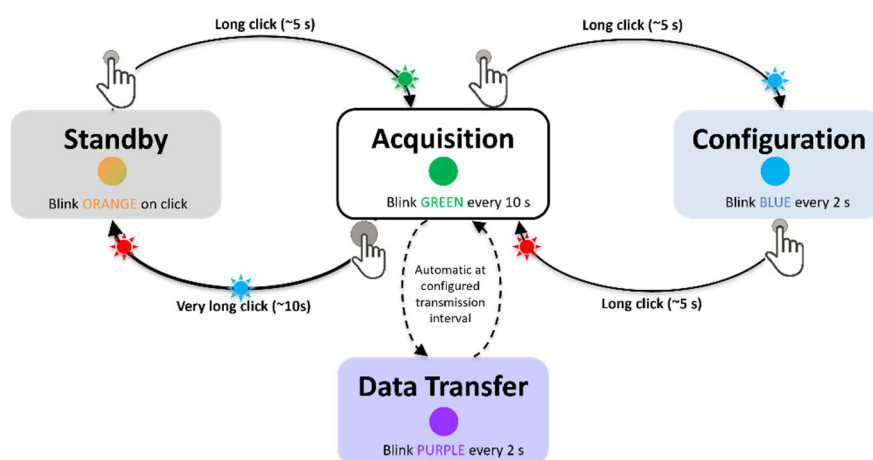


Figure 4 Logical diagram of switching from one mode of operation to another

### 8.3 ACTIVATING CV-LOG-35

Once the following actions are performed

- ☐ Connected the battery & installed the sensor.
- ☐ Inserted the SIM card (if not using the default CLA-VAL SIM card)
- ☐ Closed the housing.

Switch to "Acquisition" mode on your CV-Log-35 as indicated in Figure 4 (from "Standby" mode, press the button for 5 seconds).

### 8.4 INSTALLATION VALIDATION

The simplest and fastest way to verify the successful start of the product is to use the CV-Log-35 LED. The LED flashes green every 10 seconds when in "Acquisition" mode.

## 9 TOOL & CONFIGURATION

### 9.1 INSTALLATION CHECKUP

The CV-Log-35's user interface provides complete product parameters information such as sensor readings and cellular reception quality:

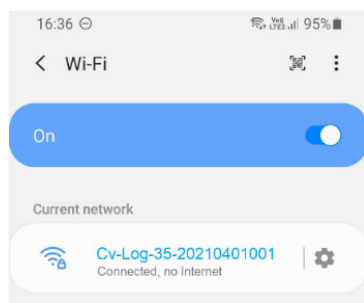
1. Activate "**Configuration**" mode on your CV-Log-35 as indicated in the previous section (from "**Acquisition**" mode, press the button for 5 seconds).
2. Connect your smartphone, tablet, or computer to the WiFi network generated by the CV-Log-35.

The network has the **default name**: *Cv-Log-35-  
serial number*

The default **password** is: *CVLOG35\_< last 4 digits of the series serial number >*



**We strongly recommend changing the default password at first installation.**



**Note:** The network generated by the CV-Log-35 has no Internet access. Any error messages about this can be ignored.

3. Enter the address <http://192.168.4.1> in your usual internet browser, or scan the following QR code using a QR code reading application:



4. After a few seconds, the configuration interface of your CV-Log-35 will be displayed on the default browser.
5. The home page displays the measured values in real time. It also contains the web browsing menu as well as other useful information of your CV-Log-35.

### 9.2 NAVIGATION MENUS

The user interface has dropdown menus to facilitate the readability of the interface.

To access sub-menus, click on the icon ▼ to the right of the menu if available.

Menu without icon ▼ don't have sub-menus.

When you click on the icon ▼, the other menus close.


To hide sub-menus, click on the icon ▲ to the right of the menu if available.

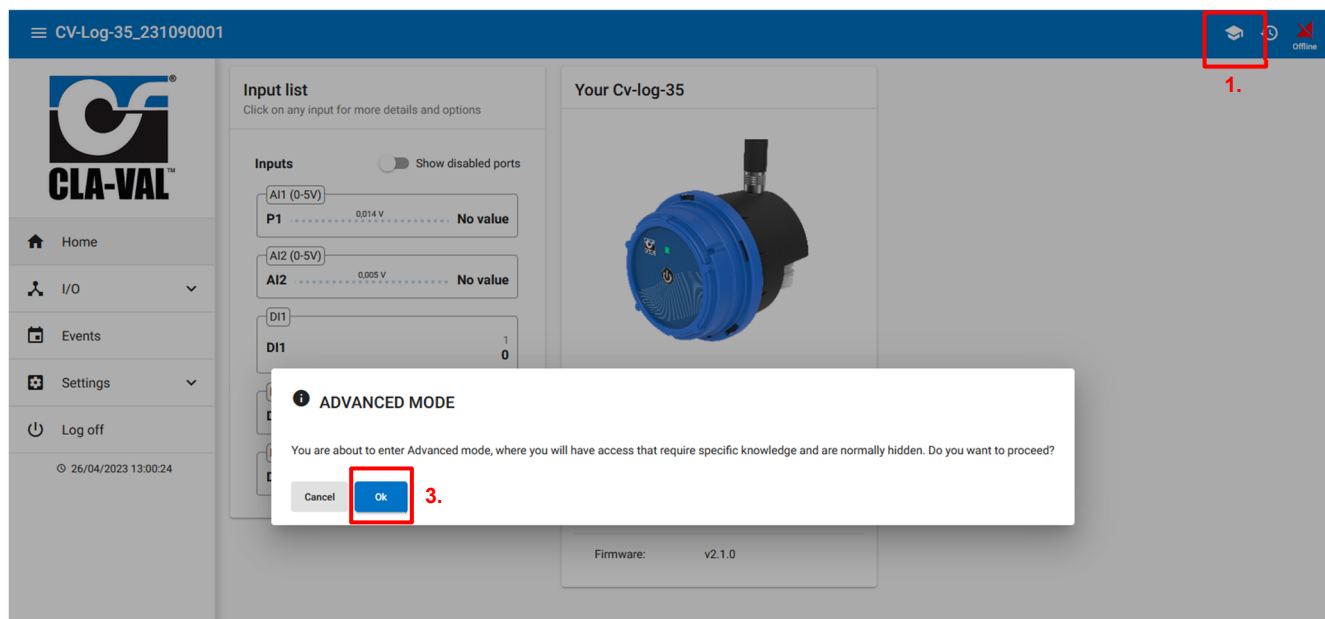



### 9.3 SIMPLIFIED / ADVANCED MODE

The advanced mode allows accessing configuration parameters requiring specific knowledge.

 **Do not access the advanced mode without prior training or assistance from CLA-VAL personnel.**


- To access the "ADVANCED MODE", click on the icon  at the top right of the interface.



- A pop-up will open to confirm your choice.
- Click on the "OK" button. You now have access to the advanced settings.
- Click the icon  again to exit the advanced mode.

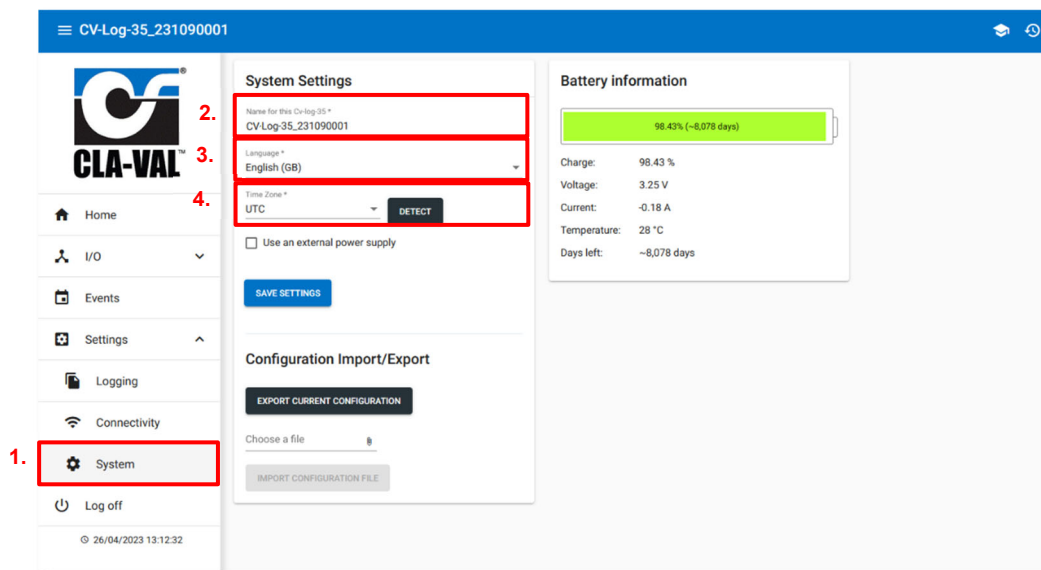
At the end of your session, the advanced mode will automatically be deactivated.




**Note:** Some parameters require switching to "ADVANCED MODE". These settings are indicated in the manual by the following icon: .

### 9.4 BASIC SYSTEM SETTINGS

1. Click on the "System" menu.
2. Give your CV-Log-35 a name.
3. Select the language of the interface.
4. Select your time zone using the "DETECT" button. If the time zone is not detected automatically, you can choose it manually with the "Time Zone" drop-down menu.

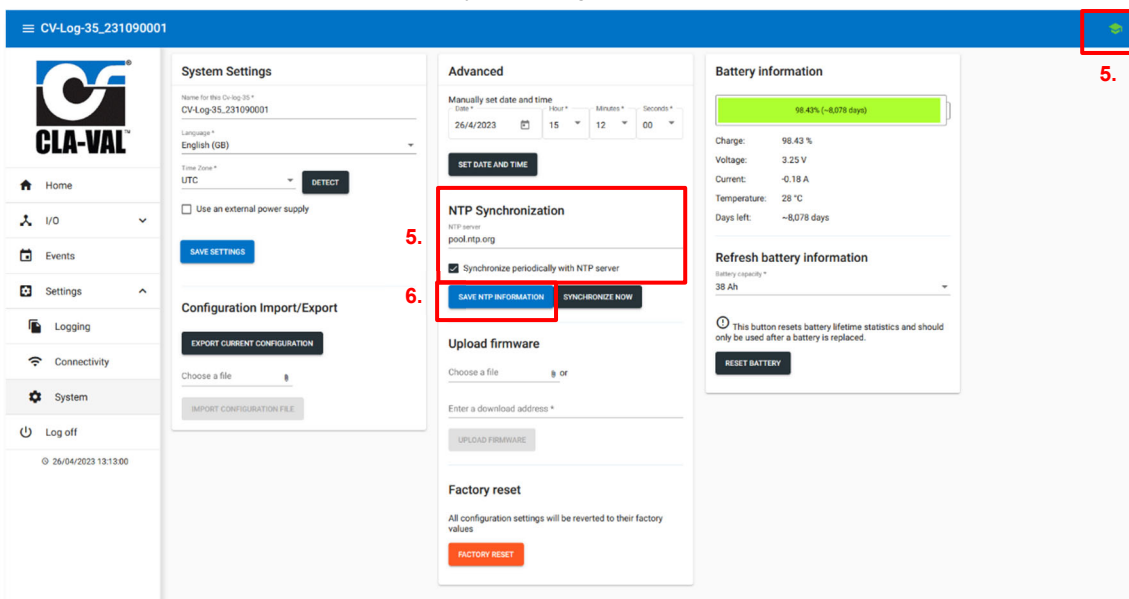




5.  Optional: Set the automatic synchronization of the unit's internal clock.
  - a. Choose a time synchronization server (NTP server). The address pool.ntp.org, corresponding to a publicly accessible server, can be used if you do not know an alternative.
  - b. Periodic synchronization is recommended.

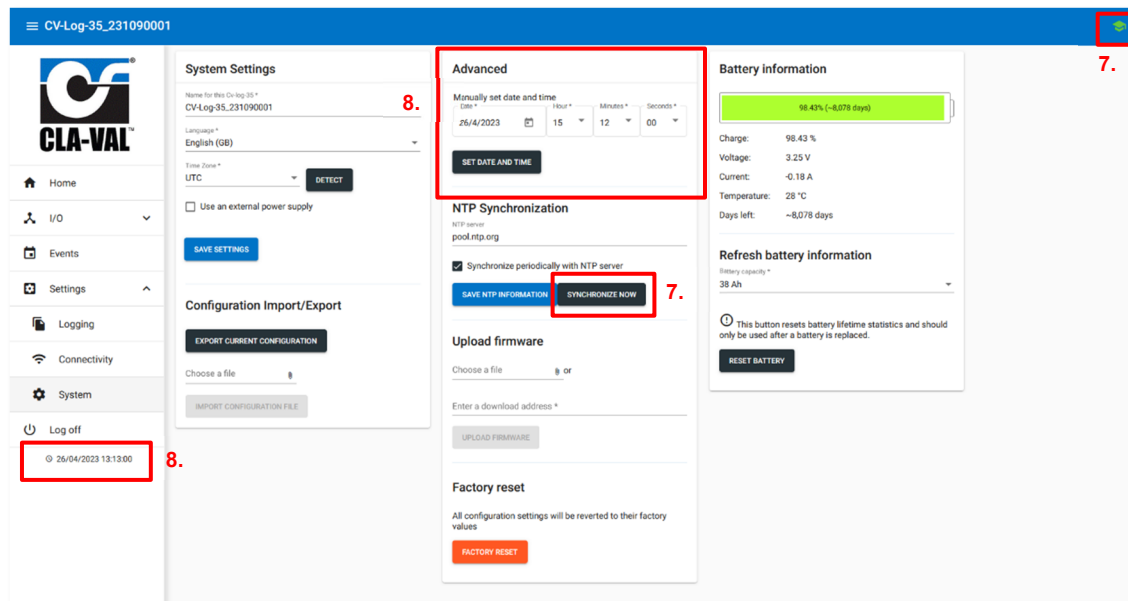


This operation can only be performed if the CV-Log-35 is connected to the cellular network (option). If not, go directly to step 8.

6. Click on "SAVE NTP INFORMATION" to apply the changes.



7.  Click on **"SYNCHRONIZE NOW"** to update your unit's clock immediately.
-  This operation can only be performed if the CV-Log-35 is connected to the cellular network (option). If not, go directly to step 8.
8. Check that the time displayed on the clock under the navigation menu is correct. If not, you can manually set the time in **"Manually set date and time"**. Click on **"SET DATE AND TIME"** to have the change applied.

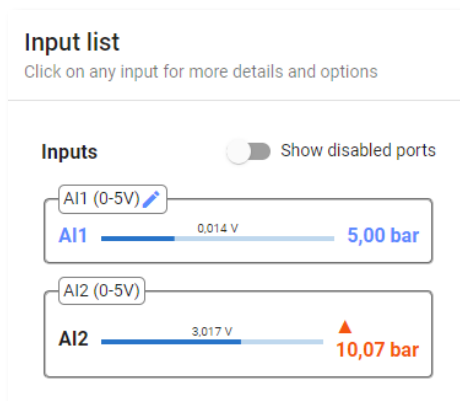


### 9.5 INPUT: COLOR CODING

A color code is used to indicate whether an input has reached its alert threshold or if the input has been forced to a predefined value by the user.

When an input reaches its alert threshold, its value appears in red.

When the input is forced, the value appears in dark blue.



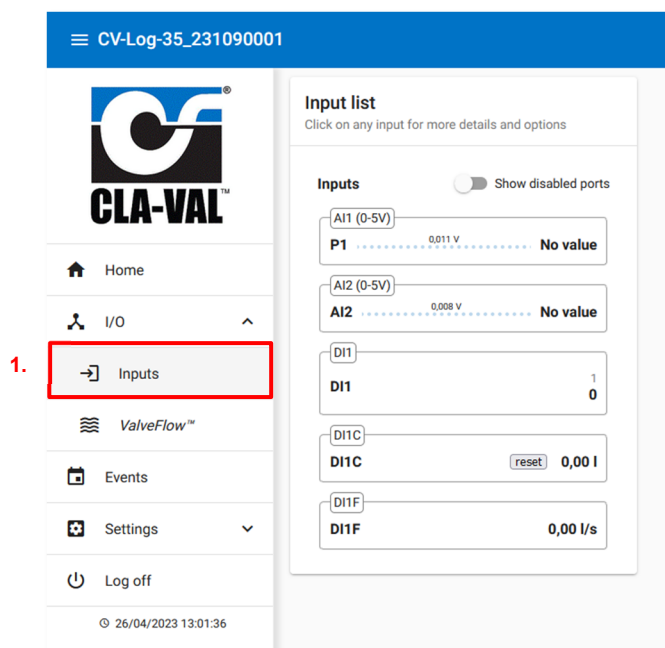


### 9.6 ANALOGUE INPUT SETTINGS

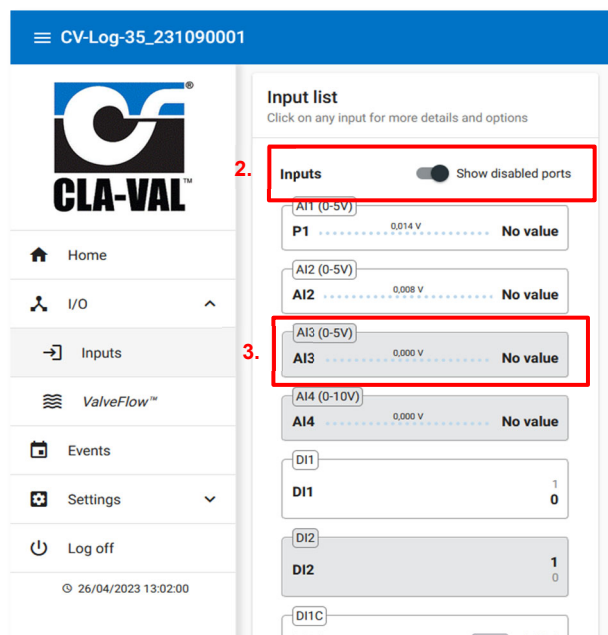
#### 9.6.1 CONFIGURATION

The inputs identified by **AI1**, **AI2**, **AI3** and **AI4** are analogue inputs.



1. Click on "→ Inputs" to display the input configuration page.

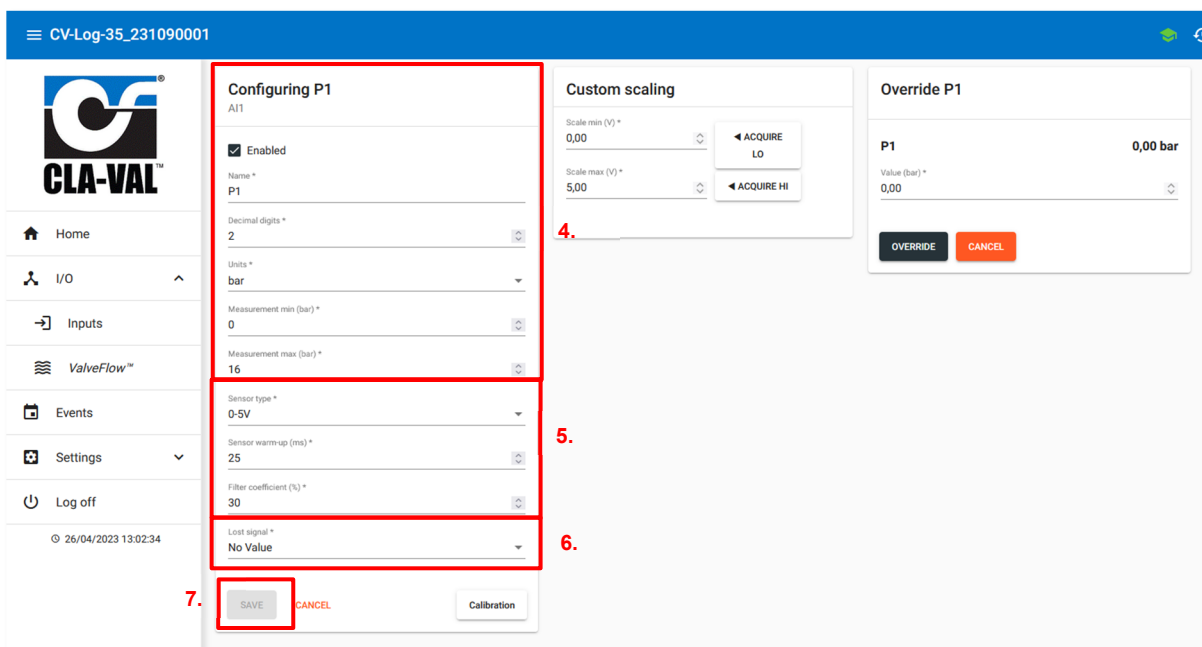


2. To activate an input that is not displayed on the list, select "**Show disabled ports**". The list will show disabled inputs with a **gray** background.
3. Click on an input to reach its configuration page.





4. On the configuration page of the desired input, you have the possibility to change the name, and then configure the basic settings of the connected sensor.
5. , additional sensor settings are available in **"advanced mode"**.
6. , **"Lost Signal"** drop-down menu allows to configure an action when the sensor signal is lost. For example, when the ratiometric sensor voltage is less than 0.5 V.  
You have the choice between:
  - a. No Value
  - b. A default Value
  - c. The last Value
7. When done, click **"SAVE"** to apply your changes.



The screenshot shows the 'Configuring P1' panel with the following settings:


- Enabled:** ☒
- Name:** P1
- Decimal digits:** 2
- Units:** bar
- Measurement min (bar):** 0
- Measurement max (bar):** 16
- Sensor type:** 0-5V
- Sensor warm-up (ms):** 25
- Filter coefficient (%):** 30
- Lost signal:** No Value

Red boxes and numbers highlight specific areas:

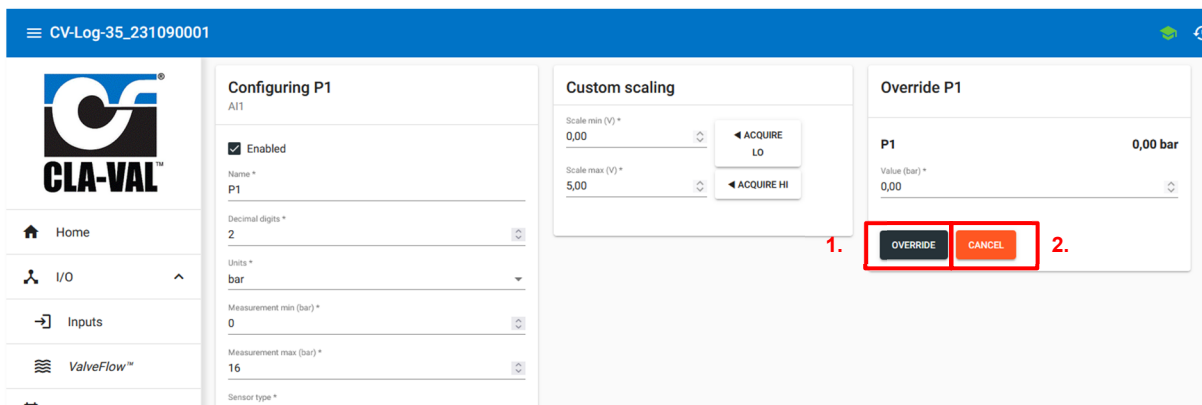
- 4.** Points to the 'Custom scaling' section.
- 5.** Points to the 'Sensor type' dropdown.
- 6.** Points to the 'Lost signal' dropdown.
- 7.** Points to the 'SAVE' button.

### 9.6.2 INPUT TEST

To test the proper functioning of an input, you can override its value:

1. After defining a desired value, click on **"OVERRIDE"**,  the forced value takes priority over the sensor.
2. To cancel the input override, click on **"CANCEL"**.

When you exit the **"Configuration"** mode, all overridden inputs are automatically released.



The screenshot shows the 'Override P1' panel with the following settings:

- P1:** 0,00 bar
- Value (bar):** 0,00

Red boxes and numbers highlight the 'OVERRIDE' and 'CANCEL' buttons:

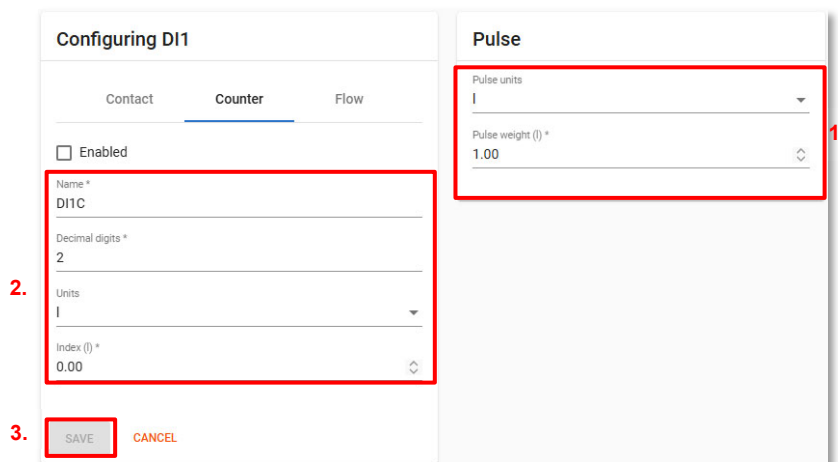
- 1.** Points to the 'OVERRIDE' button.
- 2.** Points to the 'CANCEL' button.

### 9.7 CONNECTING A FLOWMETER


Pulse meters must be connected to digital inputs (**DI1** or **DI2**). The configuration of these inputs **DIx** is broken down into two sub-inputs: **DIxC**, which provides volume information (C=COUNT), and **DIxF**, which is flow rate information.

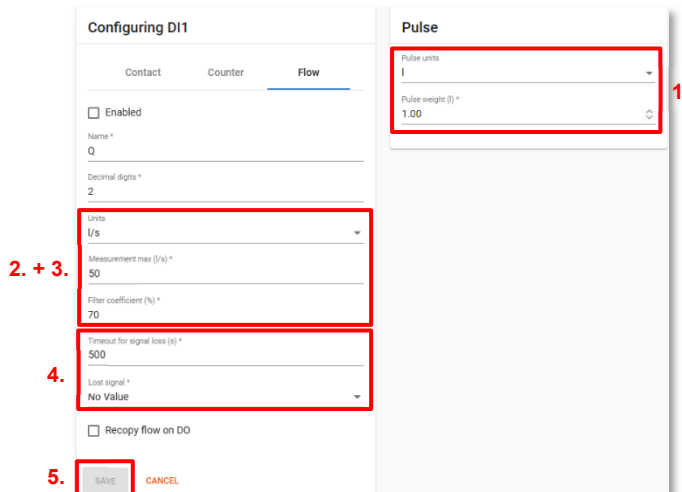
The input **DIxC** controls the display of the volume measurement.

1. Select the "pulse weight" for the flow meter and its units.
2. Set the initial value of the counter.
3. Click "SAVE" to apply the changes.



The input **DIxF** controls the flow rate display.

1. Choose the pulse weight and its units. These options must match the connected flowmeter.
2. Choose the units in which the flow rate is displayed.
3. Set the maximum measurement value of the input.
4. 
  - You can set the timeout before signal loss.
  - The "Signal Lost" dropdown menu allows you to configure an action when the sensor signal is lost. For example, when the voltage of the ratiometric sensor is less than 0.5 V. You have the choice to apply:
    - a. No value
    - b. A default value.
    - c. The last value.
5. Click "SAVE" to apply changes.

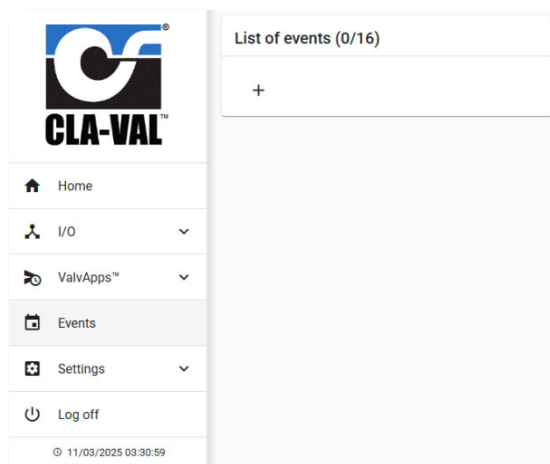


### 9.8 EVENT SETTING

Events allow you to trigger actions or alerts based on the status of an input (sensor, measurement, etc.). You can create up to 16 independent events.

To access the events menu:

- In the configuration interface, click on the "Events" menu.
- A list of events (initially empty) appears.

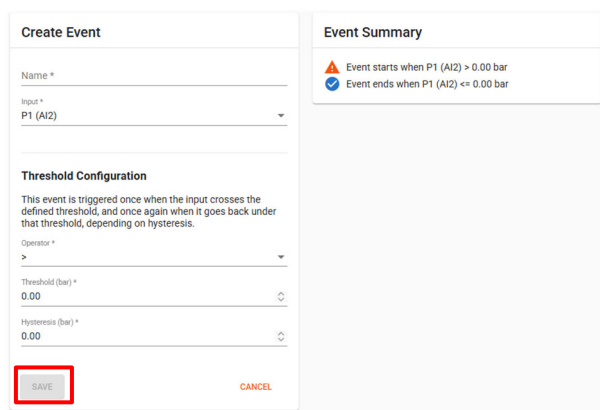


To create a new event:

- Click on the add icon.
- Enter a name for your event (for example, "High Pressure Alert").
- Select the input on which you want to base the event.

Depending on the chosen input, you can configure three types of events:

- Threshold event
  - Required parameters: a threshold and a hysteresis (return-to-normal or dead zone value).
  - Triggers an alert if the value goes above (or below) a defined threshold.
- Counter event
  - Required parameter: a setpoint describing the range of values that trigger successive alerts.
- State change event
  - No additional parameters: the event is triggered as soon as there is a change in the input's status (on/off, open/closed, etc.).
- When all parameters are filled in, click on **"SAVE"**.

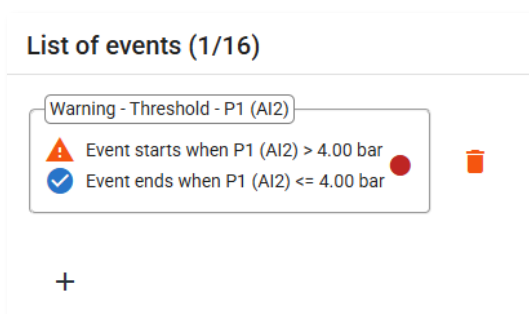


To modify an existing event:

- In the list of events, click on the event you want to modify.
- Update the necessary fields (type, threshold, setpoint, etc.).
- Click on **"SAVE"** to confirm your changes.

Event and alert status:

- Threshold events use a color code:
  - Green: event enabled
  - Red: event disabled



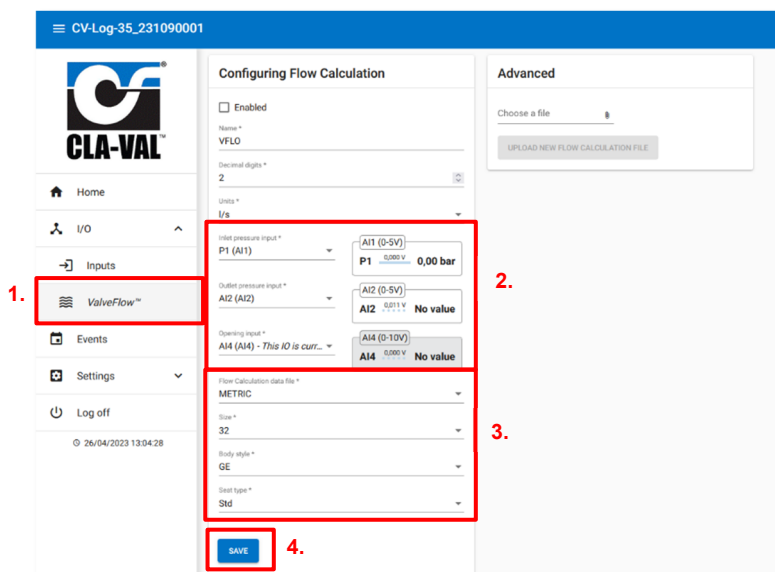
If an event is triggered (while the device is being configured), a small bell icon appears next to its name. It disappears when the event is acknowledged (at the next Wi-Fi disconnection).

Outside of configuration mode, when the bell appears, the information is automatically sent via the configured transfer methods.


### 9.9 VALVEFLOW™ SETTING (OPTION)

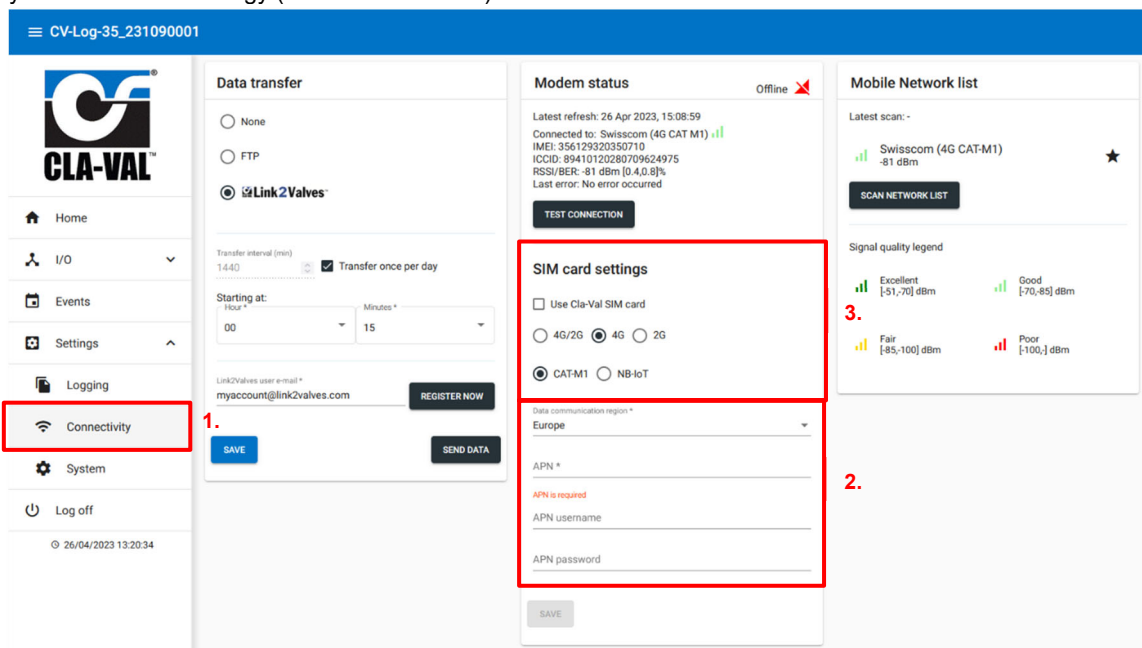
The *ValveFlow™* allows calculating the flow through a CLA-VAL valve, thanks to inlet pressure, outlet pressure, and valve opening.

1. Configure the ValveFlow by clicking on "ValveFlow™".
2. Select the inputs corresponding to the inlet/outlet pressure, as well as the opening.
3. Select the type of valve installed.
4. Click **"SAVE"** to apply the changes.



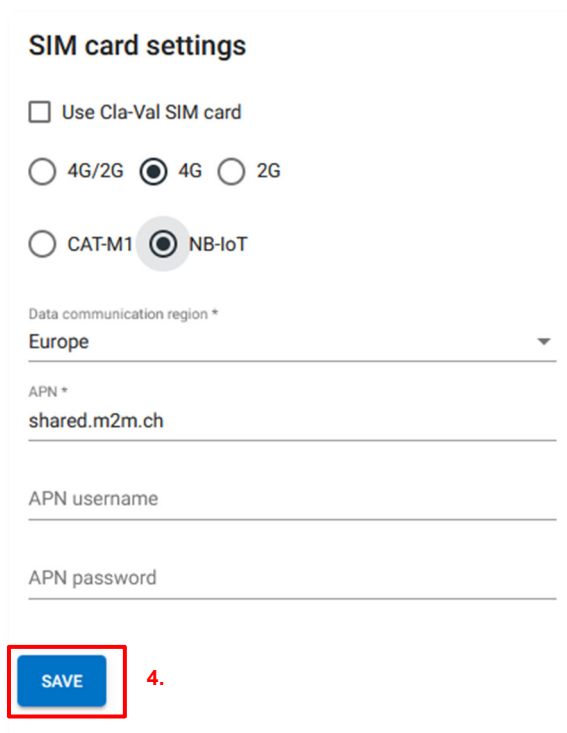
### 9.10 CUSTOM SIM CARD (COMMUNICATION OPTION)

1. Click on "  **Connectivity**" menu.
2. Enter the APN information of your SIM card (provided by your network operator).
3. Choose whether you want to communicate in 4G / 2G (Fallback in 2G in case of unavailability of 4G), 4G only, or 2G only and the 4G technology (CAT-M1 or NB-IoT).



The screenshot shows the web interface of the CLA-VAL CV-Log-35\_231090001. The left sidebar contains a menu with options: Home, I/O, Events, Settings, Logging, **Connectivity** (highlighted with a red box and labeled '1.'), System, and Log off. The main content area is divided into three sections: Data transfer, Modem status, and Mobile Network list. The Modem status section is further divided into SIM card settings (highlighted with a red box and labeled '2.') and Data communication region. The SIM card settings section includes a checkbox for 'Use Cla-Val SIM card', radio buttons for '4G/2G', '4G' (selected), and '2G', and radio buttons for 'CAT-M1' and 'NB-IoT' (selected). Below these are input fields for 'APN \*', 'APN username', and 'APN password'. The 'APN \*' field contains the text 'shared.m2m.ch'. The 'Data communication region' dropdown is set to 'Europe'. A 'SAVE' button is located at the bottom of the SIM card settings section, highlighted with a red box and labeled '4.'.

4. Click the "SAVE" button in the "SIM card settings" section to apply the configuration.

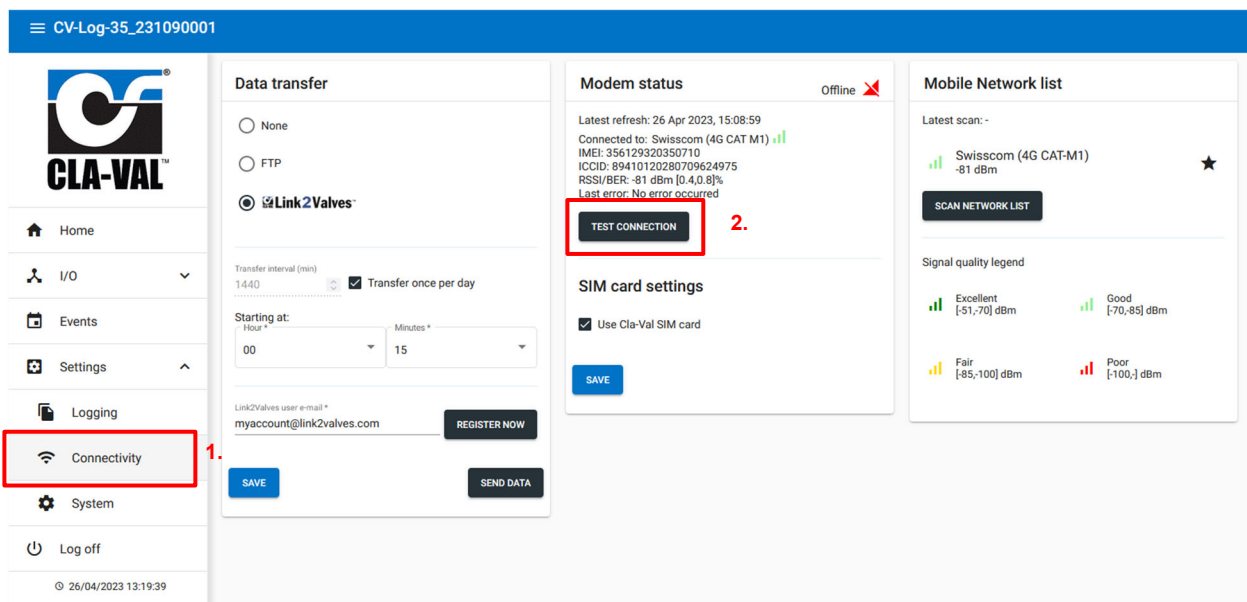


This is a close-up screenshot of the 'SIM card settings' section. It shows the following options and fields:

- ☐ Use Cla-Val SIM card
- ☐ 4G/2G ☒ 4G ☐ 2G
- ☐ CAT-M1 ☒ NB-IoT
- Data communication region \*: Europe (dropdown menu)
- APN \*: shared.m2m.ch
- APN username
- APN password
- SAVE** button (highlighted with a red box and labeled '4.')

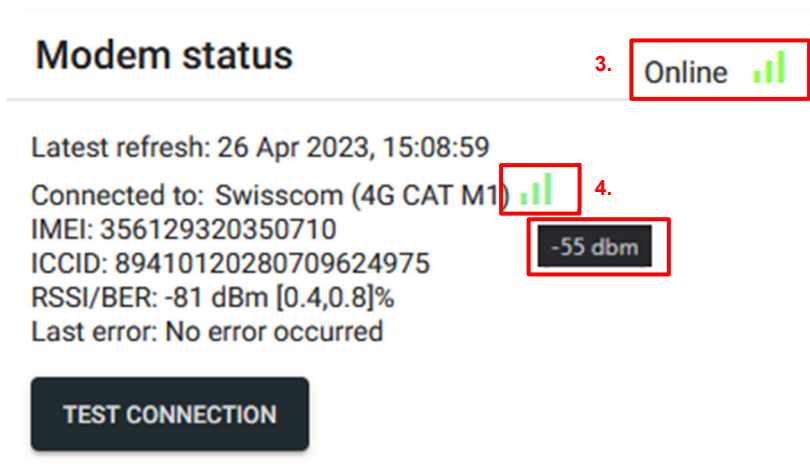
### 9.11 CHECKING THE QUALITY OF THE NETWORK (COMMUNICATION OPTION)

1. Click on "  **Connectivity**" menu.
2. Click on the button "**TEST CONNECTION**".



The screenshot shows the CLA-VAL CV-Log-35 web interface. On the left sidebar, the 'Connectivity' menu item is highlighted with a red box and labeled '1.'. The main content area is divided into three sections: 'Data transfer', 'Modem status', and 'Mobile Network list'. In the 'Modem status' section, the 'TEST CONNECTION' button is highlighted with a red box and labeled '2.'. The status is currently 'Offline'.

3. Wait until the mode is online and refresh the page (F5).
4. Check the dBm value by hovering over the network quality icon.




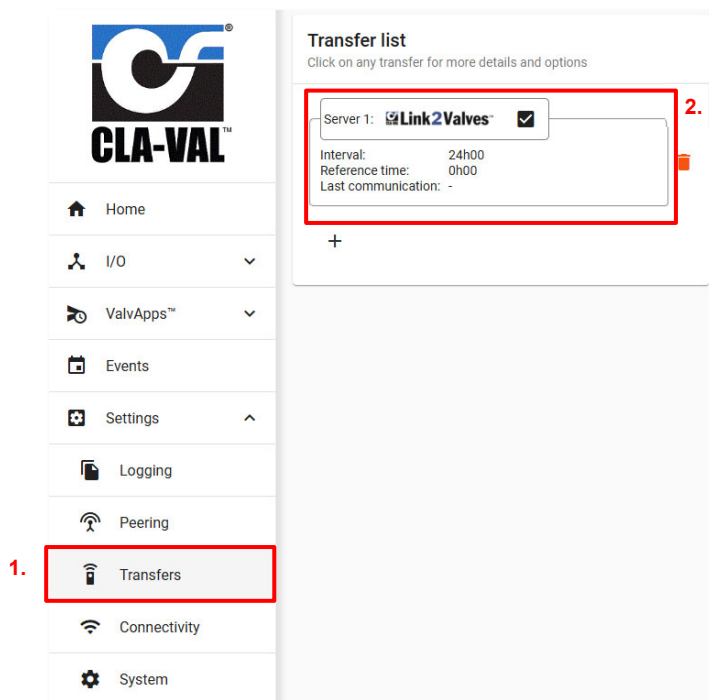
This close-up screenshot focuses on the 'Modem status' section. The status has changed to 'Online', indicated by a green signal icon and labeled '3.'. Below this, the text shows 'Connected to: Swisscom (4G CAT M1)' with a green signal icon next to it, labeled '4.'. The 'RSSI/BER' value is '-81 dBm [0.4,0.8]%', and the 'Last error' is 'No error occurred'. A 'TEST CONNECTION' button is visible at the bottom.

### 9.12 REGISTER ON LINK2VALVES (COMMUNICATION OPTION)

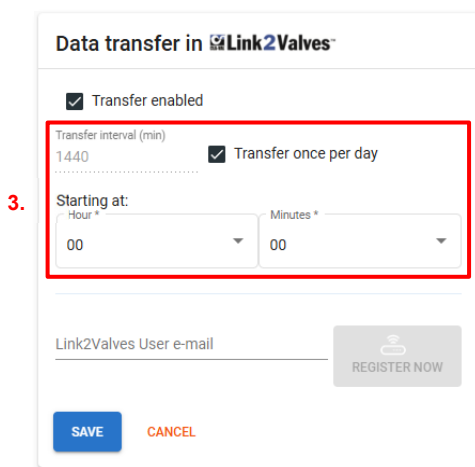
Link2Valves™ is the CLA-VAL web platform (<https://cla-val.ch>) that allows the remote access to your CV-Log-35.

A Link2Valves account is necessary. Please contact CLA-VAL to get one for free if you don't have it yet.

1. Click on "  **Transfers**" menu.
2. Under "Transfer List", click "Link2Valves".



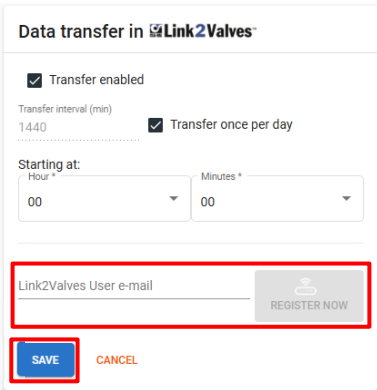
3. Choose the transfer interval and the time when the transfer will start. This interval will determine the frequency of communications of the CV-Log-35 and Link2Valves. Please note that a faster interval will have a negative impact on the battery life and generate potential additional data communication costs.



The screenshot shows the 'Data transfer in Link2Valves' configuration form. It includes a checkbox for 'Transfer enabled' which is checked. Below this is a section for 'Transfer interval (min)' with a value of 1440 and a checkbox for 'Transfer once per day' which is also checked. A red box highlights the 'Starting at' section, which contains two dropdown menus for 'Hour' and 'Minutes', both set to 00. This section is labeled '3.'. At the bottom of the form, there is a text input for 'Link2Valves User e-mail', a 'REGISTER NOW' button, and 'SAVE' and 'CANCEL' buttons.



4. Associate the CV-Log-35 unit with your Link2Valves user account. First, enter the email address of your Link2Valves account. If you do not have one, please contact CLA-VAL to get one for free. Then click on **"REGISTER NOW"** and wait for the message **"Success!"**.



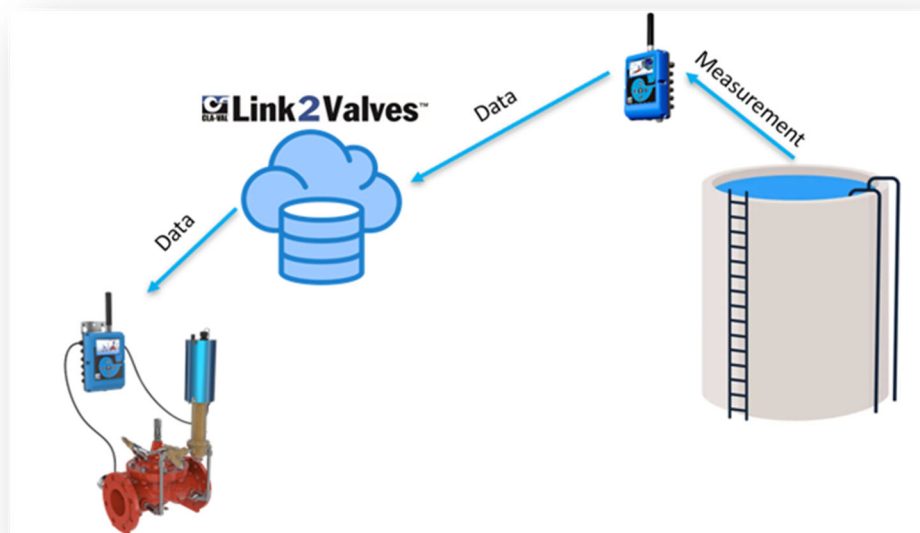
4.

5.

5.  Don't forget to click **"SAVE"** for your changes to take effect.

### 9.13 PEERING LINK2VALVES

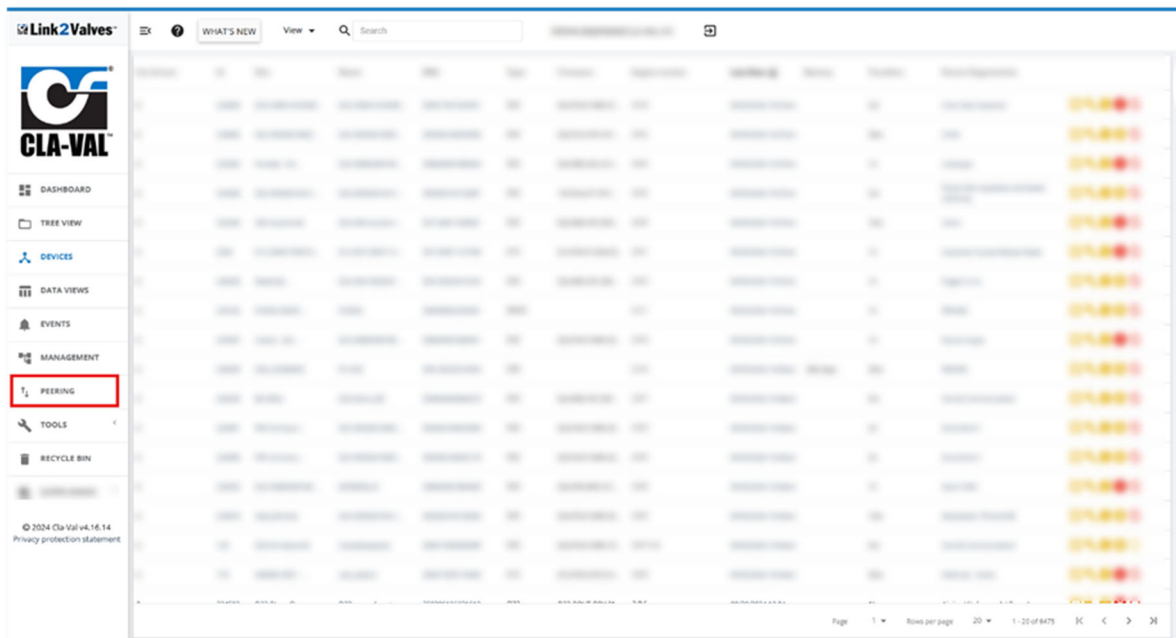
The HTTPS Peering functionality enables two or more CV-Log-35 devices to connect, communicate, and exchange information with each other. This feature is especially useful in scenarios where measurements are taken far from the valve, such as when the reservoir is located remotely. In such cases, the CV-Log-35 positioned near the reservoir measures the level and sends this value to the CV-Log-35 controlling the valve. Based on these values, the controller activates the actuator to reach the desired setpoint.



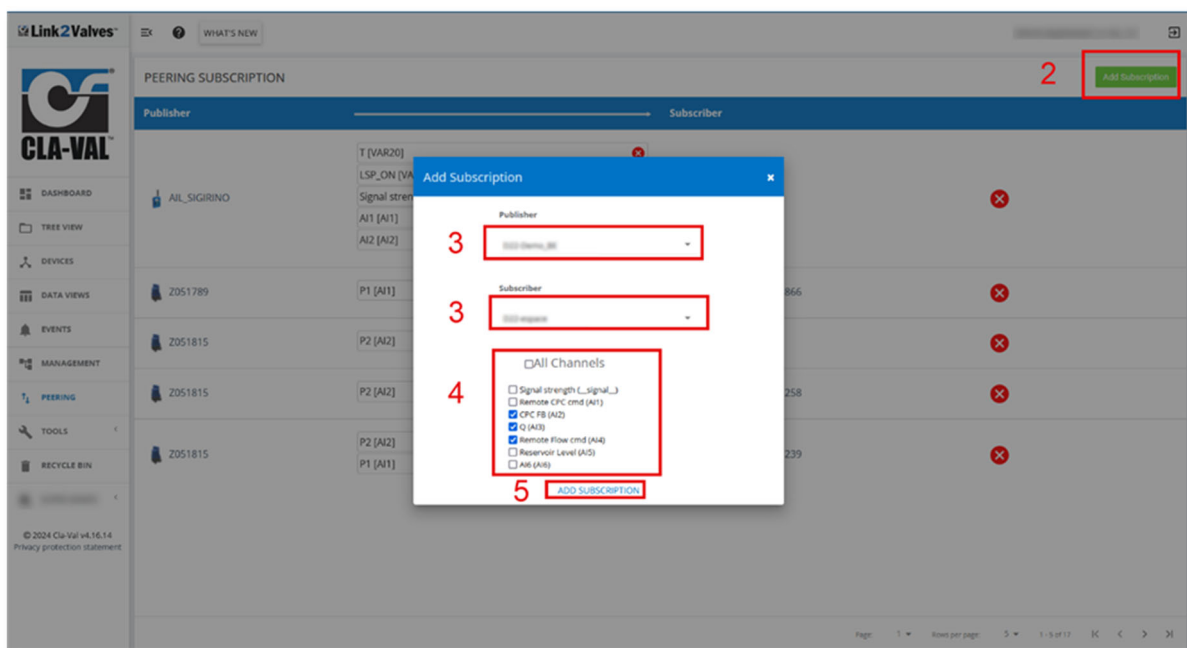
To use this feature, the devices intended to communicate must be connected via Link2Valves.

The first step is to configure the Peering functionality on L2V. To do so:

1. From the main Link2Valves page, click on the Peering option.



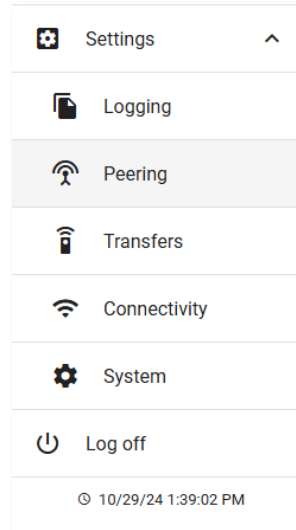
2. Click on "Add Subscription" to create a new communication between the two devices.
3. Select the device that will publish the data and the device that will receive the data.
4. Choose the inputs to be transmitted to the other device. For the publishing device, it is also possible to publish its outputs.
5. Finally, click the "Add Subscription" button.



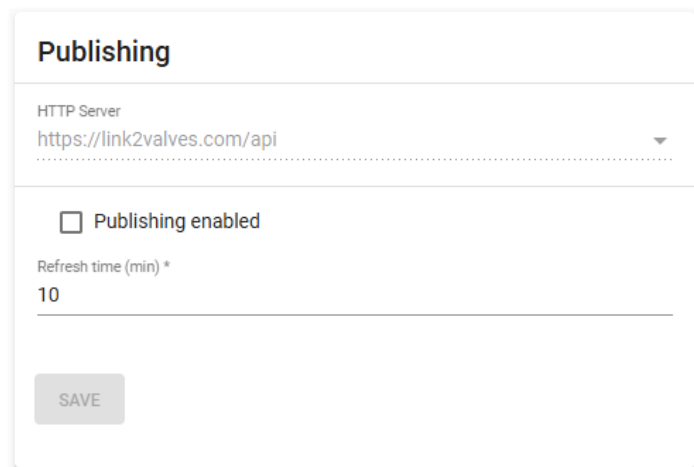
After configuring HTTPS Peering on Link2Valves, the next step is to set up the CV-Log-35 devices so they can communicate with each other.

To configure Peering on the CV-Log-35, follow these steps:

1. Access the Peering submenu from the Settings menu.



2. In the **Publication** section, configure the device that will publish its data. Enable publishing and select the publishing interval.


A screenshot of the 'Publishing' configuration screen in the application. The screen has a title 'Publishing' at the top. Below it, there is a section for 'HTTP Server' with a text input field containing 'https://link2valves.com/api'. Below that, there is a checkbox labeled 'Publishing enabled' which is currently unchecked. Underneath the checkbox, there is a label 'Refresh time (min) \*' and a text input field containing '10'. At the bottom left, there is a 'SAVE' button.


Reminder: A higher publishing frequency may lead to increased network data usage and battery consumption.

3. In the Subscription menu, configure the device that will receive the data.
  - a. Click the Refresh button to search for publishing devices, then click to enter the menu of the publisher from which the data will be collected.

### Subscribing


Click on Refresh to populate the Table


 TEST

 REFRESH

### Subscribing

Publishers	Refresh (min)	Timeout (min)	Used
D22-formation0 [356917050017081]	60	0	0

 TEST


 REFRESH

- b. After selecting the publisher, choose the data refresh interval and set the timeout duration in case no data is available.

### Subscriptions List

Local
Remote

---

 ADD

Publisher Name  
D22-formation0

Refresh Time (min)  
60

Timeout (min) \*  
0

SAVE

- c. Click "Add" and then click the button to add the channels you wish to subscribe to.

### Remote Copy

Source

AI1

Override local input

VAR1

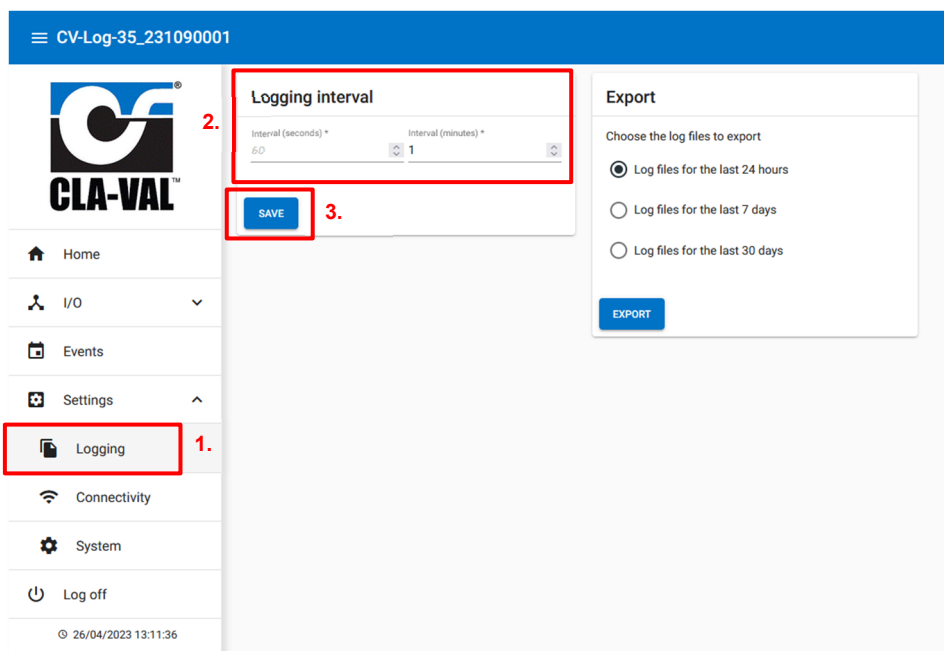
SAVE

CANCEL

By completing these steps, the CV-Log-35 devices will be able to communicate effectively via HTTPS Peering.



### 9.14 LOGGING SETTING

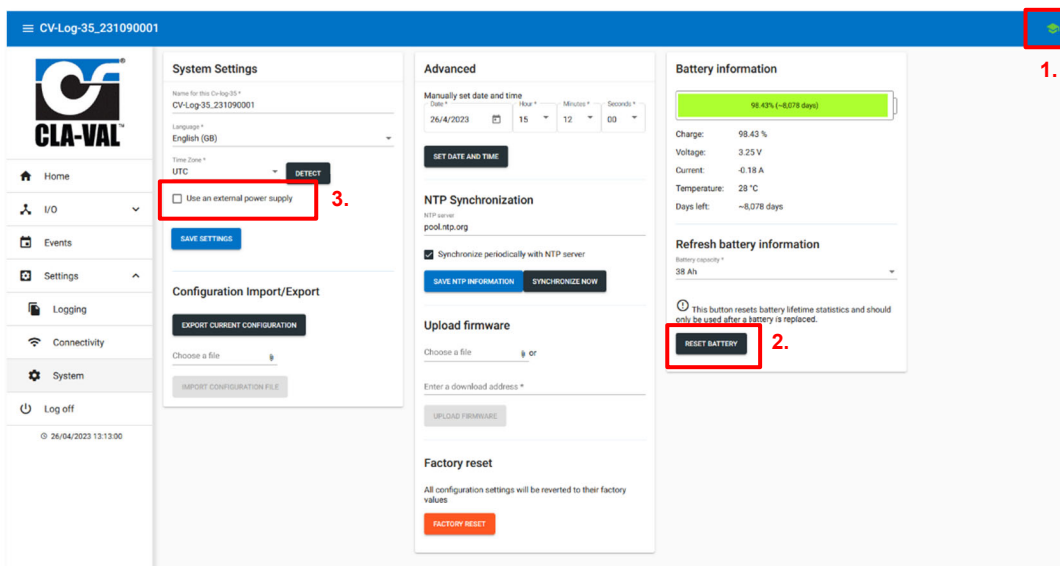
1. Click on "Logging" menu to access the corresponding configuration page.
2. Choose a recording interval. This interval manages the periodic recording of all activated inputs.
3. Click "SAVE" to apply the changes.





### 9.15 BATTERY CONTROL

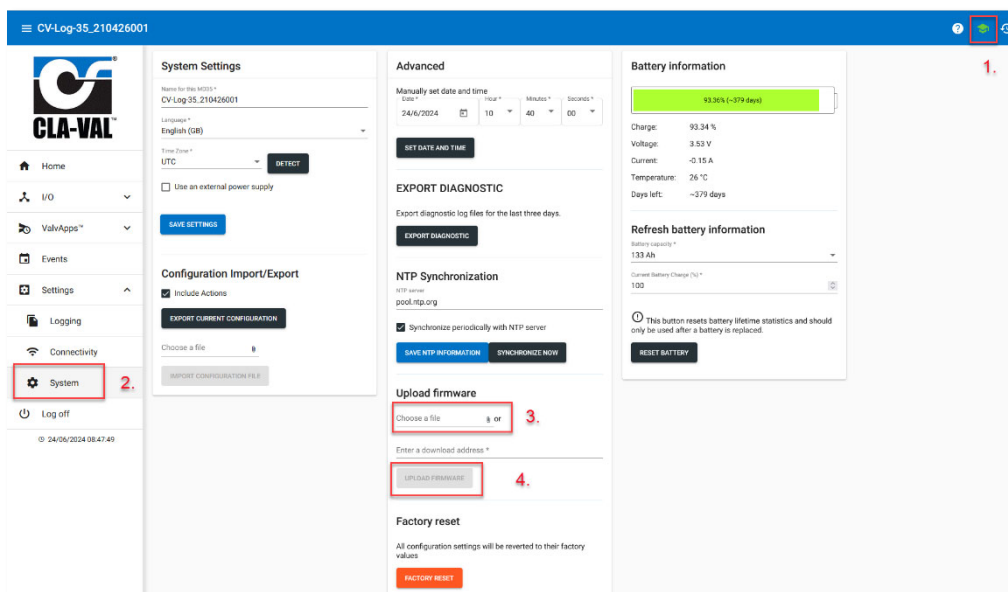
The battery display estimates the remaining time of the battery.

1.  During battery replacement.
2. Click on the "RESET BATTERY" button to reset the battery display.
3.  **This button resets the battery life statistics and should only be used after a battery has been replaced.**
3. If you are not using a battery, you can disable the battery display by clicking on the "Use an external power supply" button.

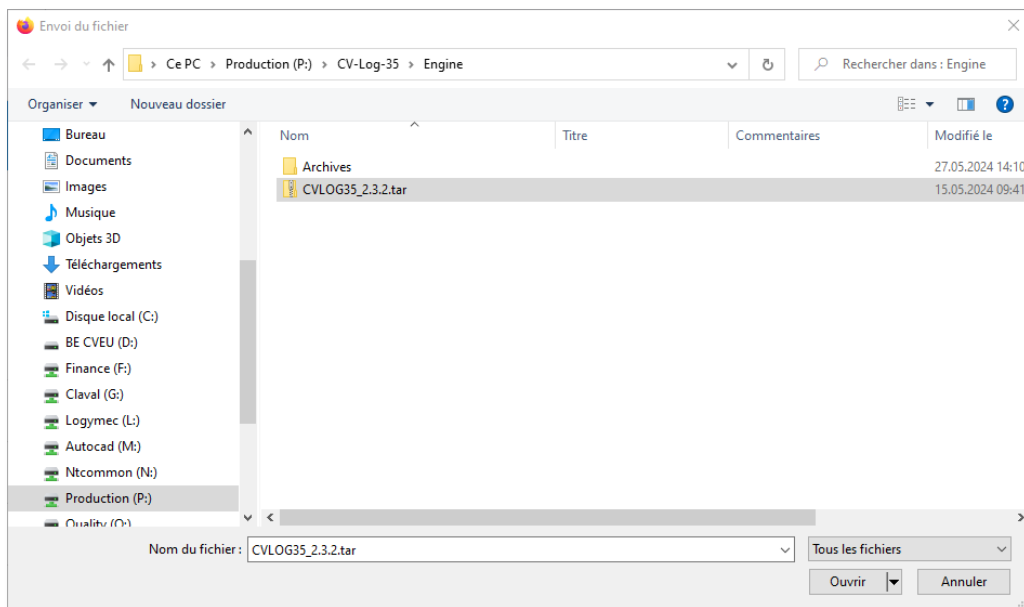



### 9.16 FIRMWARE UPDATE

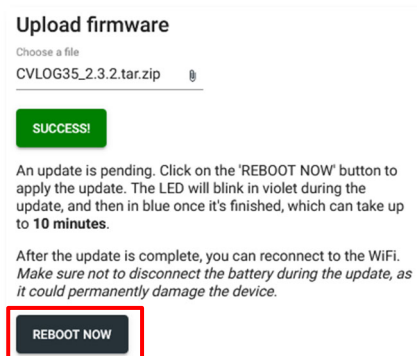
1. Click on  to enter to the advanced mode.
2. Click on the " **System**" menu.



3. Click on the "**Upload firmware - Choose a file**" submenu, then choose the ZIP file for example "CVLOG35\_2.3.2.tar".



4. Click on the **"UPLOAD FIRMWARE"** button and wait for a minute.
5. When the loading of the firmware is ok. Click on the **"REBOOT NOW"** button and wait a few minutes.  During the update, The LED will blink purple. Do not disconnect the power during this time!



6. When the update is completed, the CV-Log-35 will return in **"Configuration"** mode and the LED will blink blue.



After some minutes of inactivity, the CV-Log-35 will exit from the **"Configuration"** mode and enter **"Acquisition"** mode.



**Note:**

On the CLA-VAL website (<https://cla-val.ch>). It is possible to download the latest version of the software & firmware.

## 10 SUPPORT

### 10.1 MAINTENANCE AND RETROFIT

The CV-Log-35 is maintenance-free over the entire battery lifetime, which depends on the measurement and transmission frequencies settings (remotely configurable). However, environmental conditions may shorten battery lifetime and the presence of humidity inside the housing lead to corrosion. Prevent these situations with clean and robust installations.

When the battery reaches its end-of-life, ask CLA-VAL, or an authorized reseller for maintenance assistance to change the battery, update the device to the most current Firmware, and test the system.

### 10.2 NON-CONFORMITY RETURN (NCR)

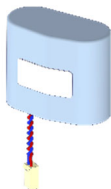



Only return CV-Log-35 under warranty after attribution of an Equipment Return Authorization provided by CLA-VAL. The returned CV-Log-35 must be clearly marked with the Non-Conformity (NCR) number.



### 11 ACCESSORIES



Warranty may be void if accessories other than those recommended by CLA-VAL are used.

Parts	Order Code	Description
	MEXE-B11-02	Internal battery replacement
	MEXE-B11-01	External High-Capacity battery replacement
	*CKCLM35-01	<p>Pack of 5 replacement head gaskets CV-Log-35 / D35 / X35</p> <p>The seal must be greased before installation.</p> <p> The seal must be replaced after each opening.</p>