

# LiberdApp

User manual

# 1. Introduction

*LiberdApp* is an application designed to simplify the management of our own developed devices. With *LiberdApp*, you can discover devices on the local network and control them, from door navigation to sensor calibration, all in one place. Additionally, you have the capability to grant limited remote access to technicians, which can be incredibly useful for troubleshooting, maintenance, or diagnostics. *LiberdApp* is your comprehensive solution for managing and optimising device performance.

More info: <https://liberda-sensortechnik.eu/liberdapp>

## 2. Initial configuration

When you're using your newly set up device for the first time, you'll need to adjust these initial settings:

### 1. Connect to the device's access point (AP)

- Open the Wi-Fi settings on your phone.
- Search for the device's AP, which is named based on the device type, serial number, and firmware version (e.g., “AG-V4-BASIC—12345678—V4—def”).
- Connect to the device's AP using the default password “calypsowlan”.

### 2. Find your device

- Launch the *LiberdApp* application.
- If you are connected to the device's AP, you'll find your device listed on the startup page.
- Otherwise please refresh the list by pulling it down or clicking on the refresh icon on the top right corner.
- Click on your device to access its details and settings.

### 3. Connect to the Local Network

- On the bottom navigation bar select the *Network* tab.
- If you see an empty *Network profiles* list, it means no networks are currently stored.
- To add a new network, click on the *Add Wifi* tab at the top.
- Choose your local network. If the list is empty or it does not contain your network, wait a few seconds, and then reopen the list. It periodically refreshes the list of available networks.

- The *Security type* will be automatically filled out from the chosen network's information.
- Turn on the *Profile priority* switch. This ensures that your device prioritizes this network if multiple networks are stored.
- Enter your network's password and click the *Add profile* button.
- After successfully storing the network profile, a warning dialog will appear, suggesting a reboot of the device. Close the dialog and proceed with the next settings.
- Verify that you can find this newly saved network in the *Profiles* list

#### 4. Change default AP password

- To increase security you should change the default access point password to your own
- Open *Network* -> *Access Point* subpage.
- Enter your new password at the bottom of the page, which you can use to connect to the access point of the device.
- Please remember your new password because the default password will no longer be valid.

#### 5. Restart your device

A restart is required for all the changes to take effect. There are three ways to restart your device:

- from a pop-up window after modification
- from the colored warning box
- with the button at the bottom of the details page

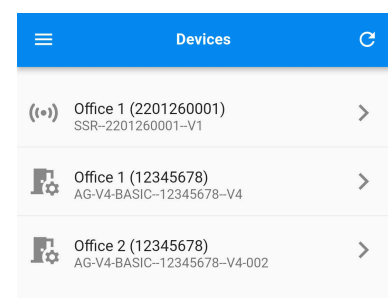
After reboot, the access point stops and the device connects to the local network. The connection between your phone and the device will be lost. If your phone is also connected to the same local network, refresh the device list in the app.

## 3. Device list

Collects reachable devices from your network.

Pull down the content or press the refresh icon in the top right corner to initiate the search.

Searching automatically stops after 20 seconds or can be manually stopped by pressing the stop icon in the top right corner.



The icons on the left of the lines indicate the type of the device.

By long-pressing a line, you can add an alias to the device for easier recognition.

A single press navigates to the device subpage.

## 4. Device content

The top line includes a list icon (for navigating back to the device list), the device name (press on it to add an alias), and a refresh icon (for reloading the viewed content).

The content is divided into four main parts, depending on the device type:

1. *Controller (For sensors Calibration)*
2. *Details*
3. *Network*
4. *Remote access*

### 1. Controller (Calibration)

This section requires an active socket connection. Only one user can establish a connection at a time. If remote access is allowed for the device, this functionality is disabled.

#### Controller

The primary function of this section is to control the connected door. By long-pressing the secondary buttons, you can adjust parameters such as ventilation time or distance. Swipe left to access an advanced functionalities list.

#### Calibration

For sensors, instead of a remote controller, there's an interface for calibration. This section displays the real-time status of the sensor.

If it is disconnected, set the correct sensor address, wait for the connection, and then run the calibration. Follow the displayed instructions to calibrate.

Swipe left to access a live stream of all sensor parameters. At the bottom you can find buttons to reset the sensor or change its address.

## 2. Details

Here you can find the most important information about the device.

*Module info* contains basic information about the network module, including its name, MAC address, and host address.

*Device info* box lists the key data of the Liberda equipment, such as the serial number, type and firmware version.

Below these sections, there are buttons for two important actions: one for restarting the device and another for deleting stored data (e.g., Alias).

## 3. Network

All network related information and settings are available here, divided into three tabs.

### Profiles

List saved network profiles. Can store seven profiles at once.

Networks marked with an asterisk have priority over the others, which means that the device tries to connect to them first.

You can delete any profile by clicking on the trash icon. If no network is available, the device creates its own access point.

### Add WiFi

Save your own local network so that the device can connect to it. This makes your device easier to access.

The select list collects available networks. This is constantly updated, so if it is empty or you can't find your network, close the list and open it again.

You can also manually enter a network name in the *SSID* field.

The *Security type* will be automatically filled out from the chosen network's information.

Turn on the *Profile priority* switch. This ensures that your device prioritizes this network if multiple profiles are stored.

Enter your network's password and click the *Add profile* button.

The device must be restarted to activate the new network connection.

After reboot, the connection between your phone and the device may be lost. If your phone is also connected to the same network, refresh the device list.

## Access point (AP)

If no network is available, the device creates its own access point. If the AP name ends with “*def*”, it is in the default state. This means the password is “*calypsowlan*“. It is recommended to change this due to security risk.

## 4. Remote access

You can allow our technicians remote access to your device for a limited time. This can make it much easier to identify and correct the causes of errors. If remote access is enabled for the device, some functions (e.g. remote control, calibration) do not work properly.

You select an active technician from the list, then the connection period. The list of technicians is constantly updated, so if you don't find the person you want, close and reopen the list.

If an error occurs while starting the remote mode, you can turn it on manually by pressing the *Set remote mode* button.

After allowing the remote access, you can see the technician's data with the expiration time. You can extend this time with the *Extend expiration* button.

When the expiration time is reached, the connection will be automatically terminated and the device will no longer be available. If you want to terminate this connection sooner, just press the *Disconnect* button.

With the *Remote access* list function, you can enable remote access on several devices at once. (*Devices -> Menu -> Remote access*)

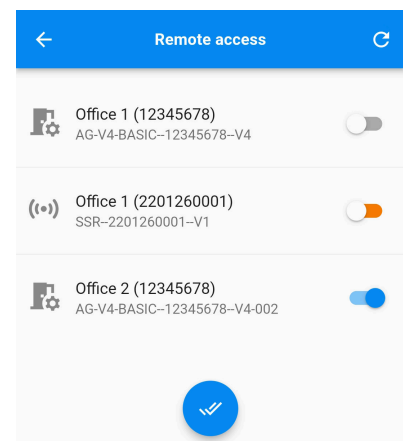
## 5. Remote access (list)

*Devices -> Menu -> Remote access*

On this list, you can manage remote access on several devices at once. Just select the devices and assign a technician to them for a certain time.

The yellow switcher shows that remote access is already enabled for the device. If such a device is selected, the current connection will be overwritten with the new one.

If you swipe a line of the list to the right, you will update the status of the device. By swiping to the left, you disable remote access on the given device.



## 6. Device storage

*Devices -> Menu -> Device storage*

The devices listed here have data that is saved on the phone. Such data is, for example, the alias of the device or the list of closed warning windows. This stored data can be deleted here.