



VivAct Setup

Device setup instructions

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Important: These instructions are intended for professional laboratory users. Button names are written as they appear in the Android application.

1. Purpose of the app

The VivAct Setup app is used for the initial configuration of a VivAct device.

It guides the laboratory user through the basic setup and verifies that the device can be used in the selected laboratory Wi-Fi environment.

- find the VivAct device,
- connect to the temporary Wi-Fi network of the device,
- enter the laboratory Wi-Fi data,
- save the configuration to the VivAct device,
- check that the phone can connect to the entered Wi-Fi network,
- send a confirmation to the cloud,
- optionally perform a short test upload.

Important: The VivAct device supports 2.4 GHz Wi-Fi only. 5 GHz and 6 GHz Wi-Fi networks are not suitable for the VivAct device.

2. Installing the app

- Open the application download link on the Android phone.
- Download the VivAct Setup APK file.
- If Android asks for permission, allow installation from this source.
- Install the VivAct Setup application.
- Open the application.
- On first launch, allow the required permissions for Wi-Fi scanning.

Important: Without the required permissions, the app cannot find the VivAct device.

3. Before you start

Before starting the setup, check the following:

- Wi-Fi is enabled on the phone,
- location services are enabled on the phone,
- the VivAct device is powered on,
- the VivAct device is broadcasting a temporary Wi-Fi network whose name starts with VivAct,
- the laboratory Wi-Fi network is 2.4 GHz,
- you know the Wi-Fi network name and password,
- the phone and the VivAct device are both within range of the laboratory 2.4 GHz Wi-Fi network.

Important: Do not configure the device in a place where the entered Wi-Fi network is not available. For example, if the Wi-Fi is available in the laboratory, do not perform the setup in an office where that network is out of range.

4. Finding the VivAct device

- Open the VivAct Setup application.
- Tap Scan again.
- The app shows the found VivAct devices.
- If several devices have the same name, distinguish them by their MAC address.
- Select the correct device.
- Tap Connect.

The app connects to the temporary Wi-Fi Access Point of the device.

The default password for the first connection is:

12345678

If the device was used before and no longer requires a password, the app handles this automatically.

5. Reading the existing configuration

After connecting to the VivAct device, the app tries to read the existing configuration from the device.

If the read succeeds, the form fields are filled in automatically. Always review the values before saving.

- Wi-Fi SSID,
- Wi-Fi password,
- Cloud username,
- Cloud password,
- Device name,
- Animal ID,
- Wheel ID,
- User email,
- Upload interval.

6. Entering data

User email: the email address that should receive setup confirmation.

Wi-Fi SSID: the name of the 2.4 GHz Wi-Fi network to which the VivAct device will connect.

Wi-Fi password: the password of the laboratory Wi-Fi network.

Cloud username: the cloud user name.

Cloud password: the cloud password.

Device name: the device name.

Animal ID: the animal identifier.

Wheel ID: the wheel identifier.

Allowed characters for labels

For Device name, Animal ID, and Wheel ID, use only letters, numbers, hyphen, underscore, and dot:

A-Z, a-z, 0-9, -, _, .

Do not use spaces, slashes, or special characters such as:

/ \ & ; , : * ? " ' < > # %

These characters can cause problems when saving data, displaying results, exporting data, or searching in the database.

Recommended examples: VivAct_01, M010, M010_A, Wheel-01, W01p, Lab1.Mouse-03.

Examples to avoid: Mouse 01, M/010, M&010, M;010, W01,test, Mouse*03.

Important: Wi-Fi SSID and Wi-Fi password are exceptions. These two values must be entered exactly as they are configured on the Wi-Fi router.

7. Advanced settings

Advanced settings are available in the Advanced tab.

To unlock the settings, enter the service code:

1234

Upload interval (minutes) defines how often the VivAct device sends data to the cloud.

3 min test: use this only for testing.

1440 min daily: use this for normal daily operation.

Important: A shorter interval increases battery consumption. If you set the interval to 3 minutes for testing, it does not change back to 1440 minutes automatically. After the test, set the device back to 1440 minutes.

8. Saving the configuration

When all values are correct:

- tap Save configuration,
- the app sends the configuration to the VivAct device,
- the VivAct device saves the configuration,
- the VivAct device switches off its temporary Wi-Fi Access Point,
- the phone reconnects to the Wi-Fi network entered in the form,
- the app verifies that the phone is on the correct Wi-Fi network,
- the app verifies that the Wi-Fi network is 2.4 GHz,
- the app sends a cloud confirmation,
- the user receives a confirmation email.

Important: If the phone is connected to a 5 GHz network, the app warns that VivAct supports only 2.4 GHz. In that case, use a 2.4 GHz Wi-Fi network or split the 2.4 GHz and 5 GHz networks on the router.

9. Three-minute test mode

For testing, open the advanced settings and select 3 min test.

After saving the configuration, wait for the confirmation email.

Important: The wheel must be rotated several times during the three-minute test period. If the wheel is not rotated, VivAct may have no new measurements and may not send data to the cloud after three minutes. This can look like a device problem even when the configuration is correct.

Test procedure

- Set the upload interval to 3 minutes.
- Save the configuration.
- Wait for the confirmation email.
- Rotate the wheel several times within the first three minutes.
- Wait for the debug email or confirmation that the ESP upload reached the cloud.
- After the test, set the device back to 1440 minutes.

10. Returning to daily operation

- Start the VivAct device in configuration mode again.
- Open the VivAct Setup application.
- Connect to the VivAct device.
- Open Advanced.
- Enter the service code 1234.
- Select 1440 min daily.
- Tap Save configuration.
- Wait for the confirmation email.

The device is now back in normal daily operation.

11. What the confirmation email means

The confirmation email means:

- the configuration was saved successfully to the VivAct device,
- the phone connected successfully to the entered Wi-Fi network,
- the cloud received the setup confirmation.

Important: The confirmation email does not necessarily mean that VivAct has already sent a measurement to the database. A real measurement upload happens after the configured interval. In 3-minute test mode, the wheel must be rotated during that period.

12. Troubleshooting

The app does not find the VivAct device

- check that the VivAct device is powered on,
- check that it is still broadcasting its Wi-Fi Access Point,
- tap Scan again,
- move the phone closer to the device.

The phone cannot connect to VivAct

- check that the device is still in configuration mode,
- if about 300 seconds have passed, the device may have stopped broadcasting its Access Point,
- restart configuration mode on the device.

The app warns that Wi-Fi is not 2.4 GHz

- use a 2.4 GHz Wi-Fi network,
- if the router uses one name for both 2.4 GHz and 5 GHz, temporarily split the networks,
- the phone must be connected to 2.4 GHz for verification, because the ESP does not support 5 GHz.

No debug email after 3 minutes

- check that the interval was really set to 3 minutes,
- check that the wheel was rotated several times during that period,
- check that the device is within Wi-Fi range,
- check that the cloud received the ESP upload.

Too many emails

- use the 3-minute test interval only for testing,
- after the test, set the interval back to 1440 minutes.

13. Recommended practice

For a laboratory setup test:

- set the device to a 3-minute upload interval,
- save the configuration,
- wait for the confirmation email,
- rotate the wheel several times during the first three minutes,
- check the debug email,
- after a successful test, set the interval back to 1440 minutes.

For normal use

- the upload interval should be 1440 minutes,
- the device should use a 2.4 GHz Wi-Fi network,
- debug emails should be enabled only for the 3-minute test interval.