ARVE SENSE Pro

Swiss Air Quality Monitoring System

Installation, Deployment & Configuration Guide

Installation, Deployment & Configuration Guide

Installation Requirements

- Wi-Fi Configuration
- Device Positioning
- Wall & Tabletop Setup
- ARVE Dashboard Registration

ARVE Installation Requirements

The ARVE Installation Guide provides step-by-step instructions for installing, connecting, and configuring the ARVE SENSE Pro. It covers both wall-mounted and tabletop installations, from initial preparation through device registration in the ARVE Dashboard.

Required Components

ARVE SENSE Pro
The main air quality monitoring device.

Wall Mounting Bracket
Wall mounting bracket with adhesive strip for secure installation.

ARVE USB Power Supply
USB power supply for connecting the device to a suitable power source.

ARVE USB Power Supply

Wall Mounting Bracket with Adhesive Strip

ARVE SENSE Pro Device

Connecting the USB Cable

Connect the ARVE USB power supply to the ARVE SENSE Pro.

The USB cable can be inserted from any of the four sides of the device, allowing flexible cable routing for both wall-mounted and tabletop installation.

ARVE USB Power Supply

Use the supplied ARVE USB power supply to provide power to the device.

Configuring ARVE SENSE Pro Wi-Fi via Access Point Mode

Firmware Version < 2.0.2

Follow these steps to connect the ARVE SENSE Pro to a Wi-Fi network using Access Point (AP) Mode.

01 — Power On

Connect the ARVE SENSE Pro to the power supply.

Ensure that no active Wi-Fi network uses the same credentials as the device's default network.

02 — Enter Access Point Mode

If the device cannot connect to its default Wi-Fi network, it automatically enters AP Mode.

LED: Constant purple

03 — Connect to the ARVE Network

Open the Wi-Fi settings on your smartphone or computer and select:

ARVE-[device serial number]

Example: ARVE-A0120-0000-0000-0154

Note: *In AP Mode, the ARVE SENSE Pro acts as a local access point. Your device will not have internet access while connected to the ARVE network.*

04 — Open the Configuration Page

While connected to the ARVE network, open a web browser and enter:

192.168.4.1

05 — Enter Wi-Fi Credentials

Enter the credentials of the Wi-Fi network you want the ARVE SENSE Pro to connect to:

- SSID — Wi-Fi network name
- Password — Wi-Fi network password

Click Submit.

LED: Flashing purple

06 — Confirm Connection

After a short time, the LED changes to:

Steady blue → Wi-Fi connection established

The device will then display green, orange, or red to indicate the current air-quality status.

Wi-Fi Connection Procedure

01 — Wi-Fi Access Point

The device enters Access Point (AP) Mode when no configured network is available.

02 — Open Configuration Page

Connect to the ARVE Wi-Fi network, open a browser, and enter:

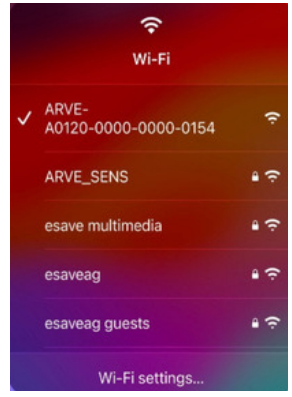
192.168.4.1

Access the device configuration page.

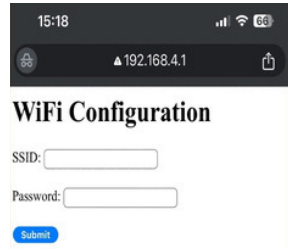
03 — Enter Wi-Fi Credentials

Enter the SSID and password of the desired Wi-Fi network, then select Submit.

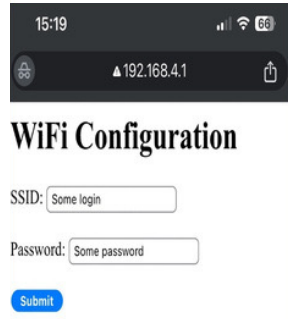
Connection established → ARVE SENSE Pro is ready for network communication.



Wi-Fi Access Point



Open the Browser and Type IP Address: 192.168.4.1



Wi-Fi Login Details

Configuring ARVE SENSE Pro Wi-Fi via Mobile App

Firmware Version ⩾ 2.0.2

01 — Power On & Smart Config

Connect the ARVE SENSE Pro to power.

If the device cannot connect to the default Wi-Fi network, it enters Smart Config Mode, indicated by a steady purple LED.

02 — Open ARVE Mobile App

Open the ARVE Mobile App, log in to your account, and select the Wi-Fi configuration option from the main menu.

Note: *Your phone must be connected to the Wi-Fi network whose credentials you want to configure on the device.*

03 — Enter Wi-Fi Credentials

Enter the network SSID and password, then tap Submit.

Configuration may take a few moments. After successful configuration, the app displays the device's IP address and MAC address, and the LED begins flashing purple.

04 — Connection Confirmed

The LED then changes to solid blue, followed by green, orange, or red to indicate the current air quality status.

ARVE SENSE Pro → Connected to Wi-Fi → Ready for Monitoring

ARVE LED Behavior During Startup and Wi-Fi Connection

01 — Booting Up

The ARVE SENSE Pro powers on automatically. During startup, the LED blinks purple for approximately 10 seconds.

Blinking Purple
Booting up

02 — Wi-Fi Connection

The device then searches for the Wi-Fi network using its preconfigured credentials.

Blinking Purple–Blue
Wi-Fi connection in progress

03 — Connection Successful

If the Wi-Fi connection is successful, the LED briefly turns blue, then changes to the current air quality status.

Green · Yellow · Red
Device operating and displaying air quality

04 — Connection Failed

If the Wi-Fi connection cannot be established, the device switches to Access Point (AP) Mode.

Constant Purple
Access Point mode

LED Status Overview

Purple blinking → Purple–Blue blinking → Blue → Green / Yellow / Red
Booting → Connecting → Connected → Air Quality Status

If connection fails: Constant Purple → Access Point Mode

LED Status Overview

The built-in multi-color LED indicates the ARVE SENSE Pro's operating state, including startup, Wi-Fi connectivity, configuration, firmware updates, and air quality status.

LED Status	Device State	Action / Meaning
Alternating Blue/Purple	Startup	Device is powering on and performing a self-check. Wi-Fi connection follows.
Solid Blue	Wi-Fi Connected	Device is connected to Wi-Fi. The LED switches to Air Quality Display Mode.
Blinking → Solid Purple	Smart Config Mode	Wi-Fi connection failed. Open the ARVE App and configure the Wi-Fi credentials.
Blinking Blue	Smart Config Timeout	Wi-Fi setup was not completed within 5 minutes. The device enters Firmware Update Mode.
Solid Blue	Firmware Update Mode	Device hotspot is active for firmware upload. Connect a PC and follow the firmware update procedure.
Alternating / Blinking	OTA Update Timeout	Firmware update was not completed. The device restarts and returns to Startup Mode.
Solid	Air Quality Display	Device is operating normally. LED color indicates the current CO_2-based air quality level.

LED Sequence

Startup → Wi-Fi Connection → Connected → Air Quality Display
Connection failed → Smart Config → Firmware Update Mode (after timeout)

Normal Operation & Additional Notes

Air Quality Display Mode

During normal operation, the LED indicates the current CO_2-based air quality level.

LED Color	CO_2 Range	Status	Description
Green	< 1,000 ppm	Good	Air quality within the defined good range.
Orange	1,000–2,000 ppm	Moderate	CO_2 level is elevated. Consider increasing ventilation or adjusting HVAC operation.
Red	> 2,000 ppm	Poor	CO_2 level is high. Increase fresh-air circulation.

Device Restart

Alternating Blue/Purple — Blinking

The device is rebooting and performing its startup check. Wait for the startup sequence to complete.

Additional Notes

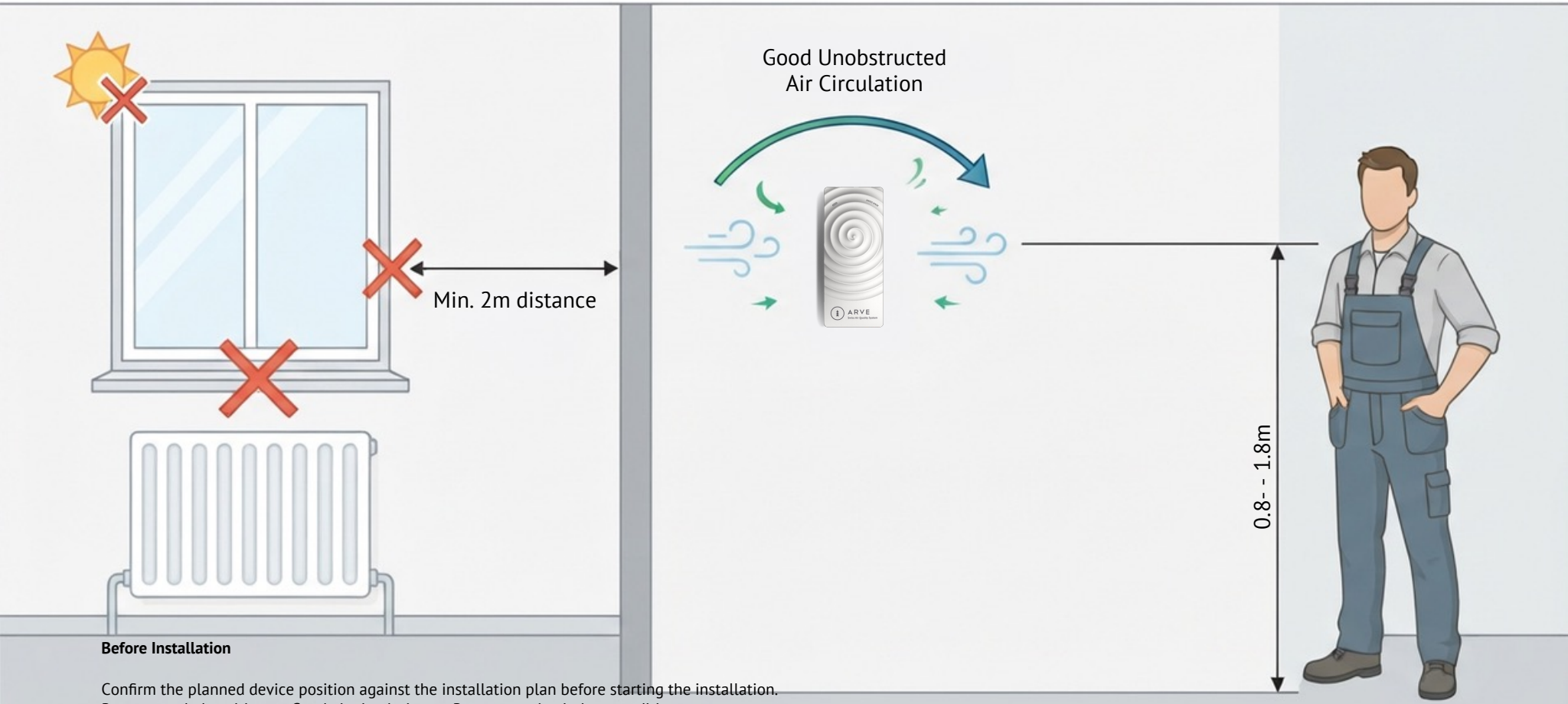
⚠ *Do not disconnect power during firmware updates or Smart Config.*

- LED brightness may vary depending on ambient lighting conditions.
- If the LED remains off for more than 10 seconds, check the power connection and confirm whether the device is in a low-power/deep-sleep state.

Wall-Mounted Installation Guidelines

Device Positioning

- Place the ARVE SENSE Pro in a central location with good, unobstructed air circulation.
- Maintain a minimum distance of 2 m from windows, ventilation outlets, and heat sources such as TVs or lighting.
- Mount the device 0.8–1.8 m above the floor.
- Avoid direct sunlight and areas exposed to significant heat.
- Do not install the device directly above heat sources.



Before Installation

Confirm the planned device position against the installation plan before starting the installation.
Recommended position → Good air circulation → Representative indoor conditions

Attaching the Wall Bracket

01 — Position
Place the wall bracket at the planned installation location and height.

02 — Secure
Fix the bracket to the wall using the provided adhesive strip or suitable screws.

03 — Check
Ensure the bracket is level and firmly secured before mounting the ARVE SENSE Pro.

Installation Check

Mounting height: 0.8–1.8 m above floor level

Position → Secure → Check → Mount the Device

Installation Successful – Access Your Data

01 — Device Connected
Once the ARVE SENSE Pro is successfully connected to Wi-Fi, room data becomes available in the ARVE system.

02 — Access Your Dashboard
Log in to your ARVE account:

dashboard.arveair.com

03 — Start Monitoring
Your device is now fully operational and reporting air quality data in real time.

Installed → Connected → Data Available → Real-Time Monitoring

Technical Support & Product Information

Ready to start monitoring indoor air quality?

For product information, technical support, system integration, or a product demonstration, our team is ready to support your application requirements.

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