

— APISENSE · STARTER KIT

Assembly instruction

From opening the box to your first hive reading.
Seven steps, every app screen and the mounting of
each device in the apiary.

• 7 STEPS • APPROX. 30 MINUTES • APISENSE PRO AI



► **Video / animation**

docs.apisense.ai/assets/videos/assembly/assembly-box-en.mp4

What's in the box

A single Hub serves the whole apiary. The Scale goes under the first hive, and each of the three hives gets its own VitalSensor and ColonyLink.

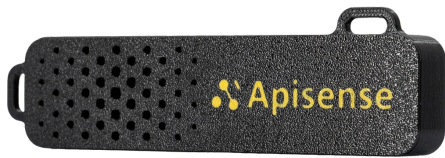
Tools: a 4 mm Allen key (Scale brackets) and a precision Torx T6 screwdriver (Scale black box). They are not included in the set.



1 × Hub



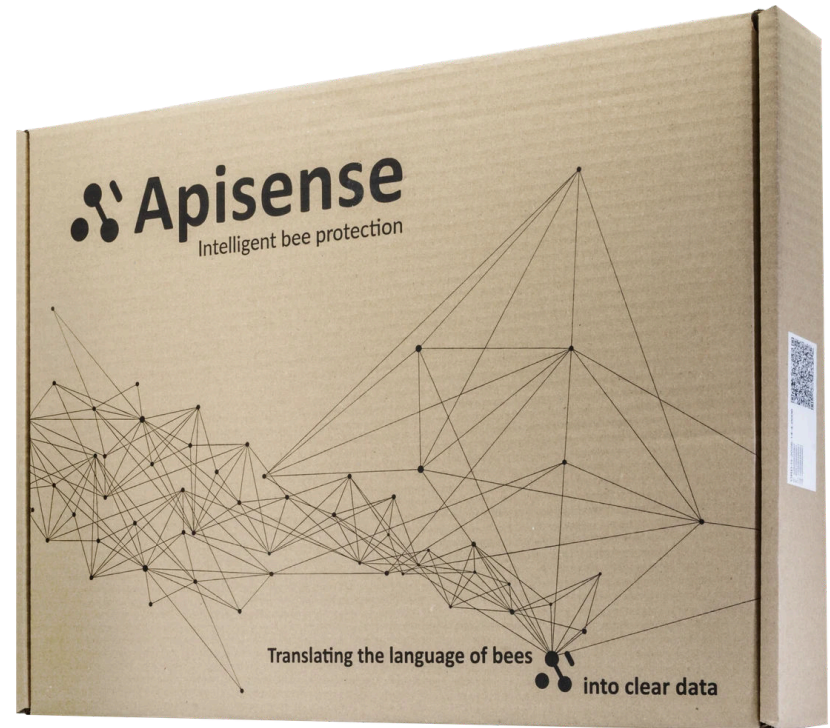
1 × Scale



3 × VitalSensor



3 × ColonyLink



APISENSE BOX

THE BOX

Download the app

The whole kit is configured from your phone. Scan the QR code with your camera or search for **Apisense Pro AI** in the App Store or Google Play.

iOS

Top QR code: App Store

Android

Bottom QR code: Google Play

www

You can also work in a browser: **app.apisense.ai**



STEP 02

Create an account

Fill in the sign-up form, tick the consent to the Terms of Service and Privacy Policy, then tap **Next**.

Username	3 to 50 characters, no spaces
Email	Used for login and notifications
Phone number	Number with the country prefix
Password	Min. 8 characters, an uppercase letter, a digit and a special character. Repeat it in Confirm password

02

9:30

←

Apisense

Intelligent protection
of your bees

Sign Up

Username

3 to 50 characters, no spaces

Email

Phone number

+1

Password

Min. 8 characters, uppercase letter, digit and special
character

Confirm Password

☐ I have read and accept the [Terms of Service](#) and
[Privacy Policy](#).

Next

02

SIGN-UP SCREEN

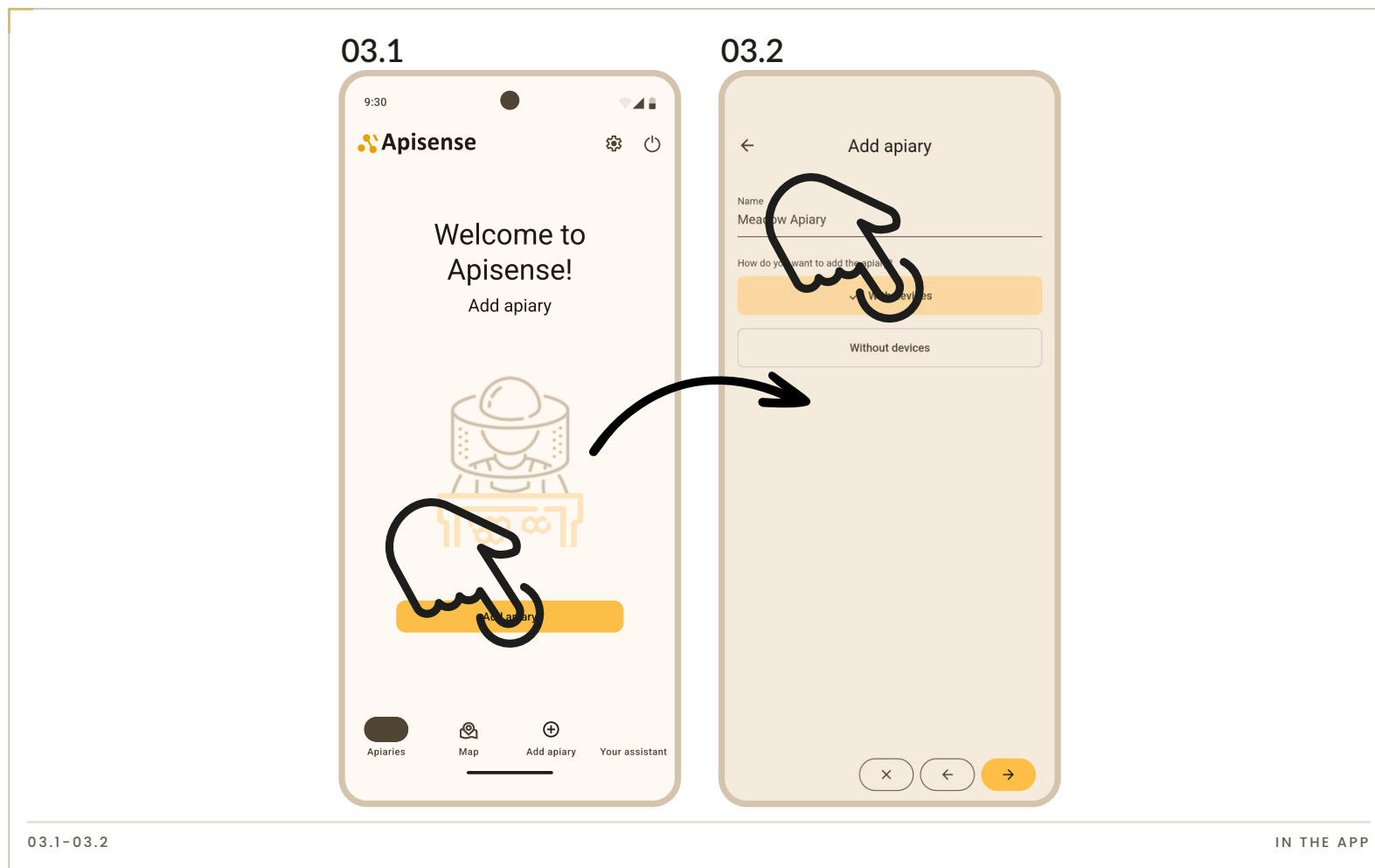
STEP 03 · 03.1-03.2

Add apiary

An apiary is the place where your hives and one Hub live. Start by giving it a name.

03.1 On the welcome screen tap **Let's start!**. If you already have apiaries, tap **Add** on the apiary list.

03.2 Enter the apiary **Name**, choose **I have a Hub**, then tap **Next**.

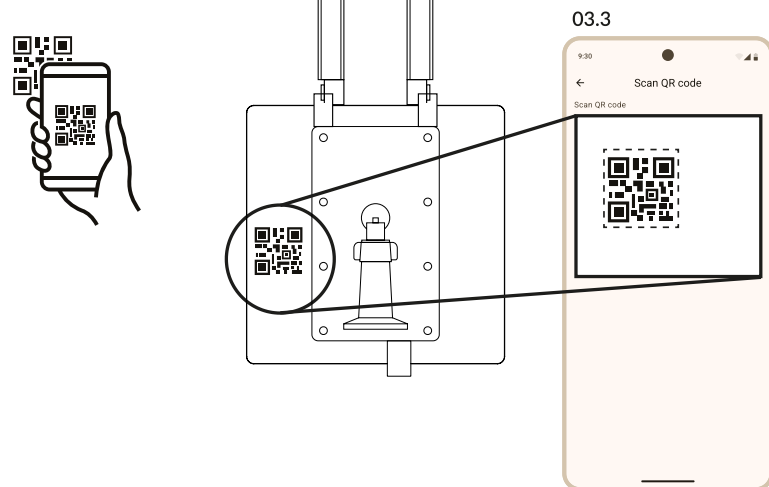


STEP 03 · 03.3

Scan the Hub QR code

The QR sticker sits on the Hub housing. Tap *Scan the Hub* and line the sticker up inside the scanner frame. The app reads the code by itself.

Tip: if the code will not scan, wipe it clean and use even light (avoid glare).



03.3

REFERENCE DRAWING



HUB

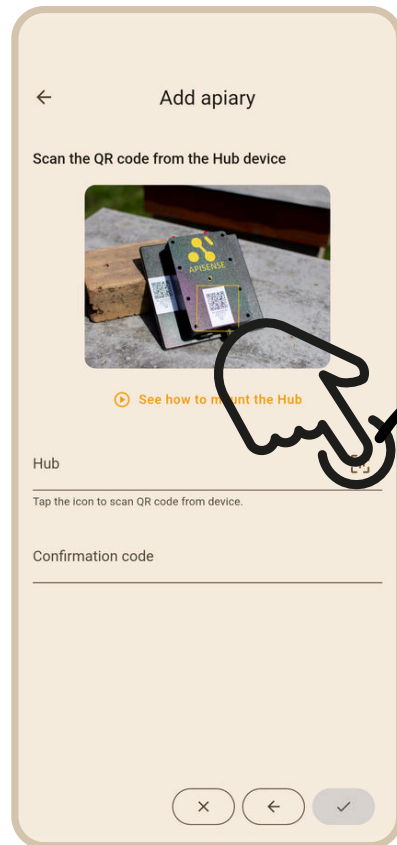
PHOTO

Your apiary is ready

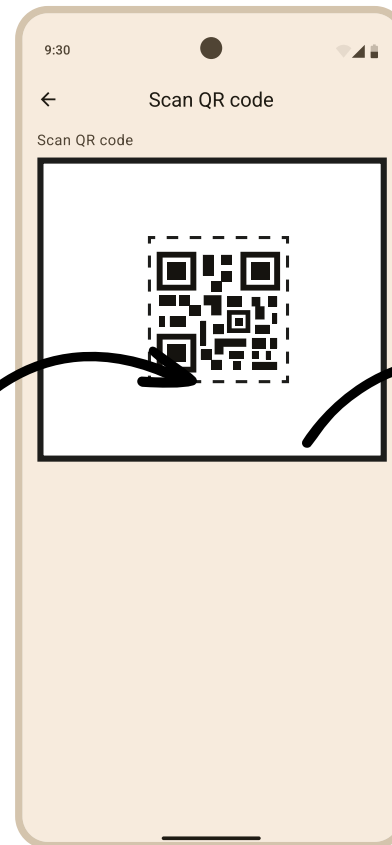
After the scan the app fills in the Hub details for you. Nothing has to be typed by hand.

- 03.4** On the Hub screen tap **Scan the Hub**.
- 03.5** The scanner reads the code and the app confirms the Hub is scanned. Tap **Save**.
- 03.6** In the **Apiary added** window tap **Add hives now** or **Later**. The apiary tile shows **Estimated time until the Hub connects**. The countdown starts by itself, you choose nothing. When the Hub connects, the tile shows the weather.

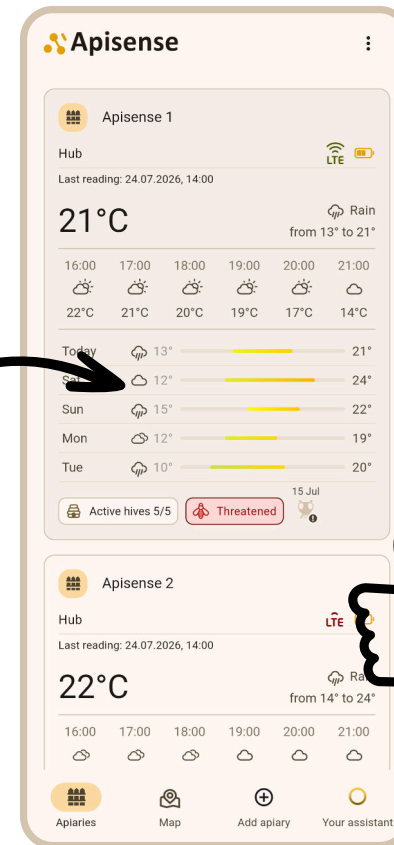
03.4



03.5



03.6



Add hive: ColonyLink, VitalSensor & Scale

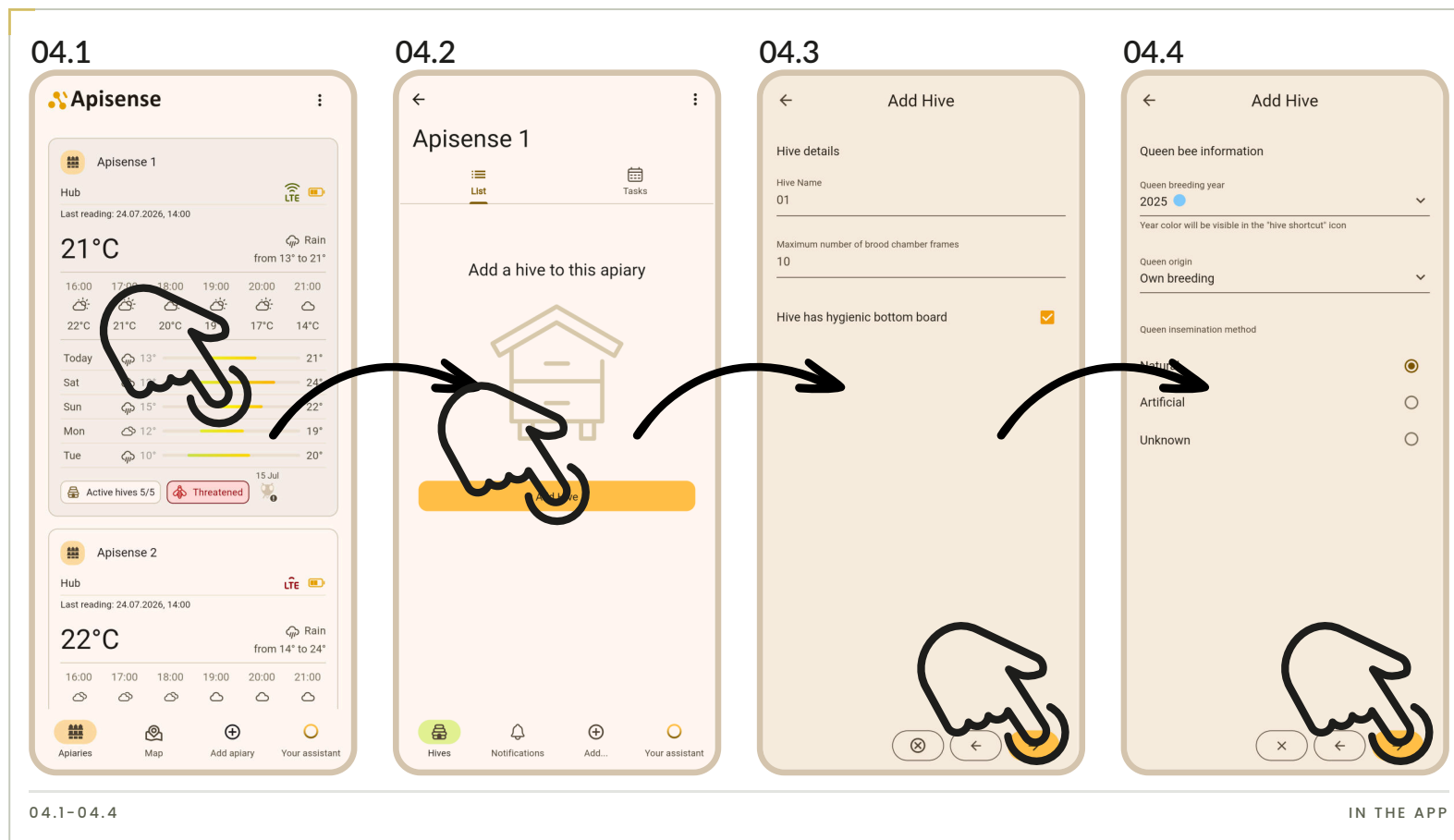
The first hive gets the full set. First you scan the QR codes of the three devices one after another (the *Hive kit* screen), then you name the hive.

04.1 Open your apiary from the home screen. You can also tap **Add hives now** in the **Apiary added** window.

04.2 Tap **Add** and choose **Hive**.

04.3 Scan the ColonyLink, the VitalSensor and the Scale in turn. The next slides show how.

04.4 On the **Check the kit and name the hive** screen enter the **Hive name** and the maximum number of frames. Queen data are optional.

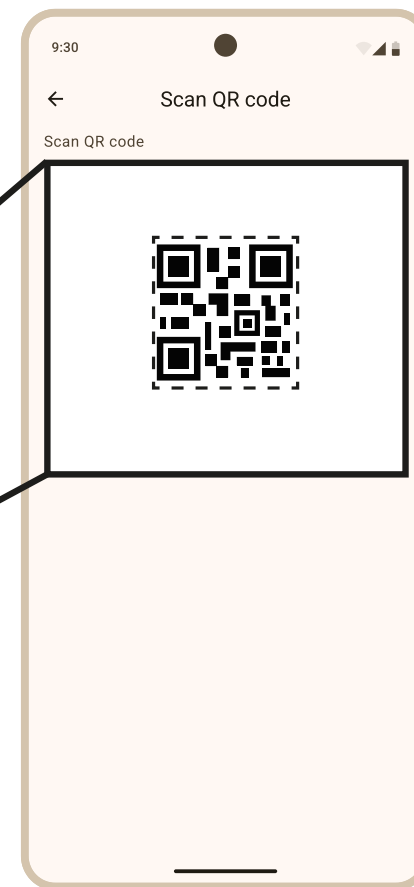
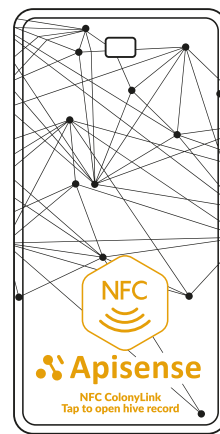
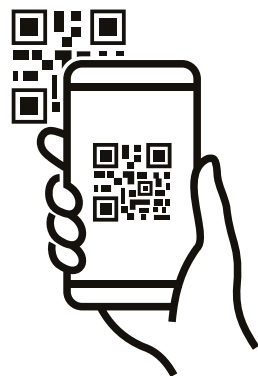


STEP 04 · COLONYLINK

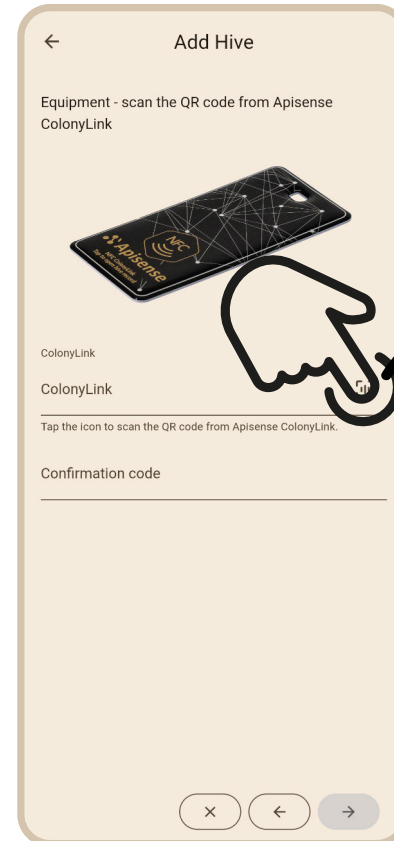
Scan the ColonyLink QR code

The ColonyLink is a **hanging card** with a **built-in NFC tag** and a **printed QR code**. Scan it first: it is what ties the hive in the app to a specific hive in the apiary.

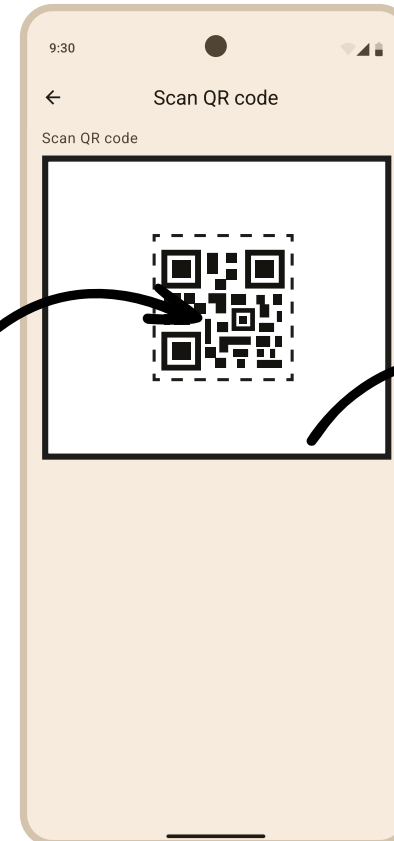
You can read the same code later by **NFC**. Just tap your phone against it, gloves and all.



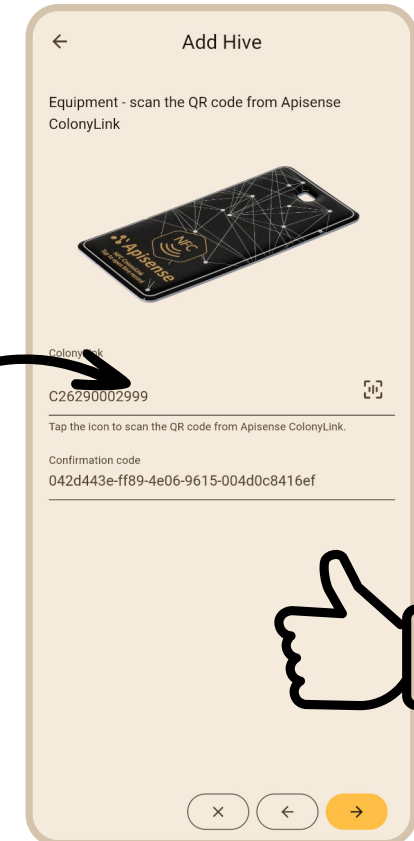
04.5



04.6



04.7



STEP 04 · 04.5-04.7

ColonyLink in the app

The QR code holds the device number and the confirmation code, so you type nothing by hand.

04.5 Tap **Scan ColonyLink**.

04.6 The scanner reads the QR code from the device.

04.7 The app confirms the ColonyLink is scanned. Tap **Next**.

04.5-04.7

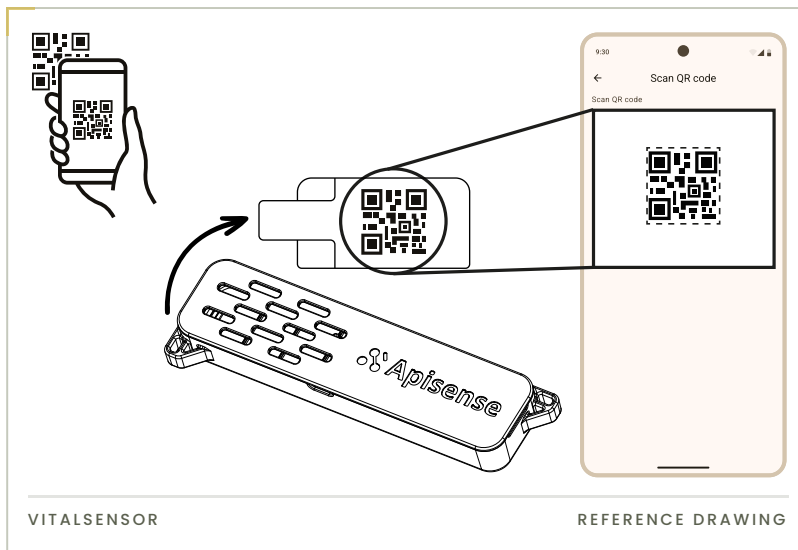
IN THE APP

STEP 04 · VITALSENSOR

Scan the VitalSensor QR code

The QR sticker is on the back of the housing. Scan it before you mount the sensor on the frame: once the frame is in the hive, the code is no longer reachable.

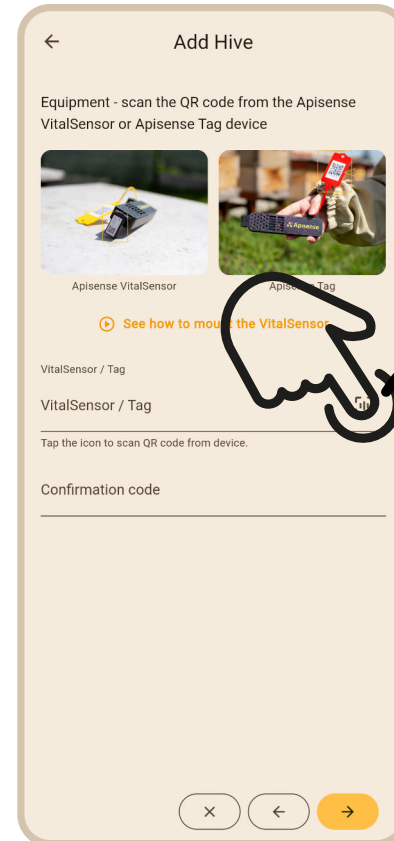
Each of the three sensors has its own code. Keep track of which one goes into which hive.



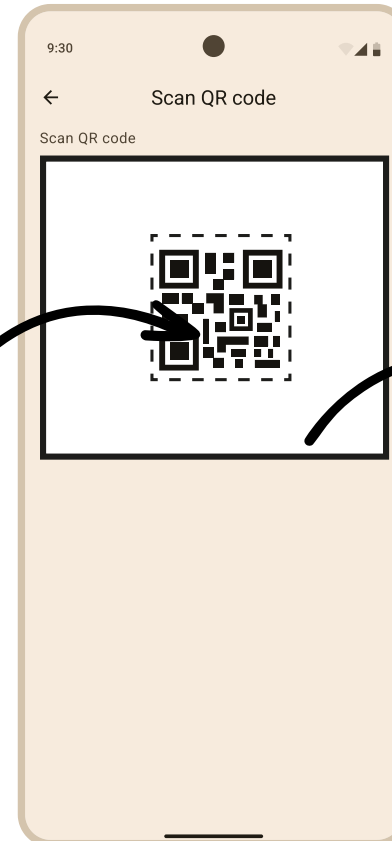
VITALSENSOR

PHOTO

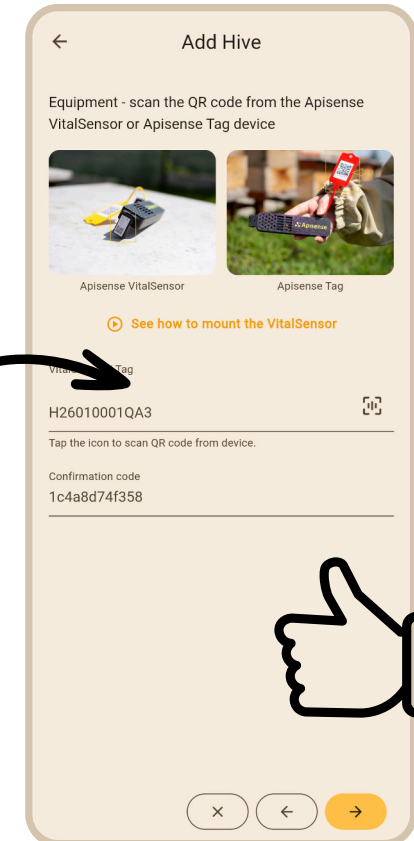
04.8



04.9



04.10



STEP 04 · 04.8-04.10

VitalSensor in the app

The QR code holds the device number and the confirmation code, so you type nothing by hand.

04.8 Tap **Scan VitalSensor**.

04.9 The scanner reads the QR code from the device.

04.10 The app confirms the VitalSensor is scanned. Tap **Next**.

04.8 - 04.10

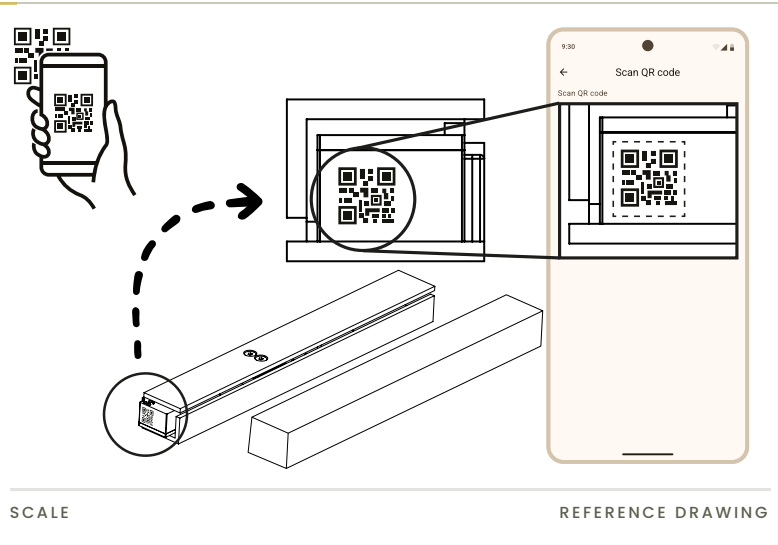
IN THE APP

STEP 04 · SCALE

Scan the Scale QR code

The QR sticker is on the end face of the measuring beam (the one with the electronics and the battery compartment). The wooden spacer bar has no code.

Scan the code **before** you slide the beam under the hive. It is harder to reach afterwards.



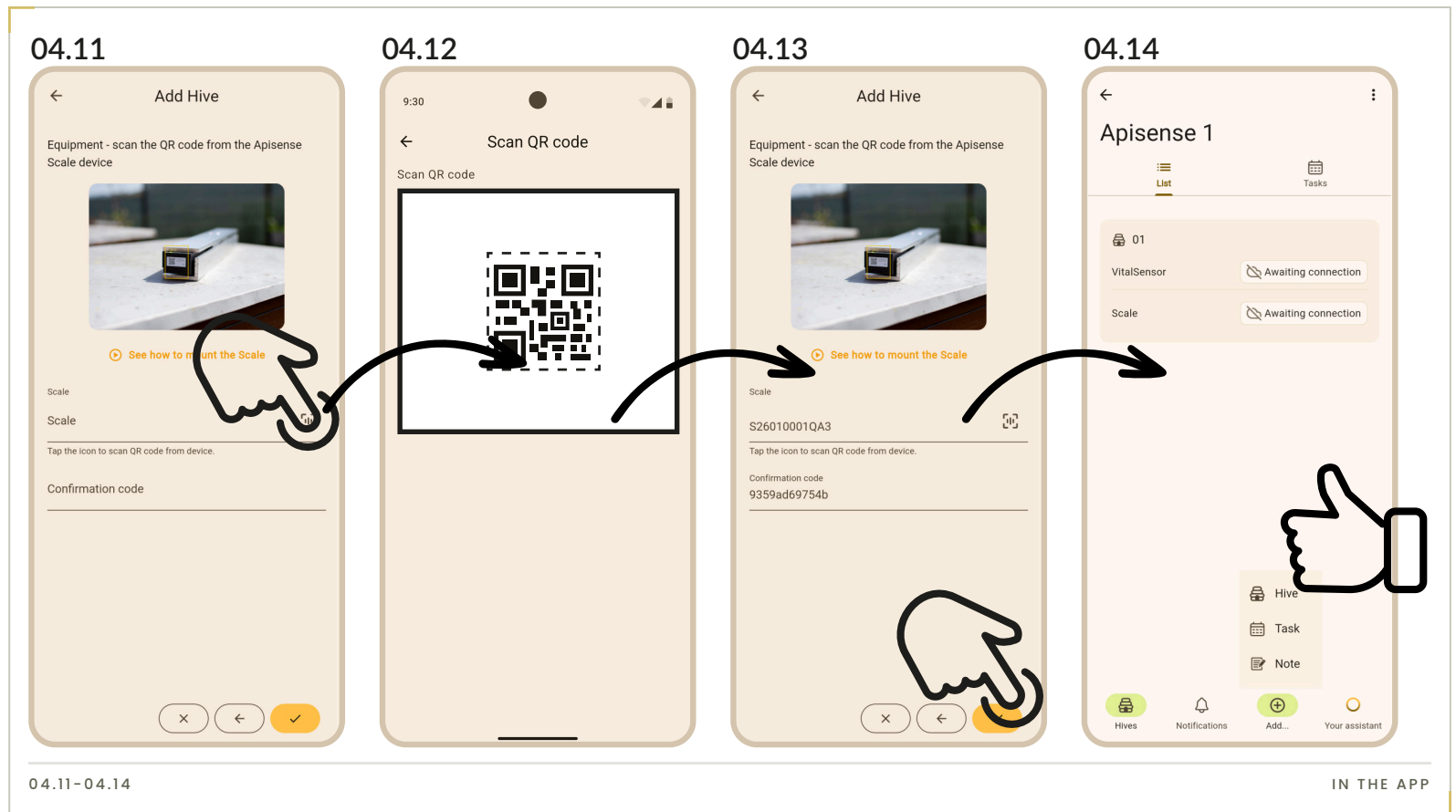
SCALE

PHOTO

The first hive is saved

After the Scale scan you name the hive and save it. The hive appears in the apiary and waits for the devices to connect.

- | | |
|-------|--|
| 04.11 | Tap Scan Scale . |
| 04.12 | The scanner reads the QR code from the device. |
| 04.13 | Tap Next , name the hive and tap Save . |
| 04.14 | The app shows Hive added . The hive waits for the devices to connect. |



STEP 05 · 05.1-05.3

Add another hive

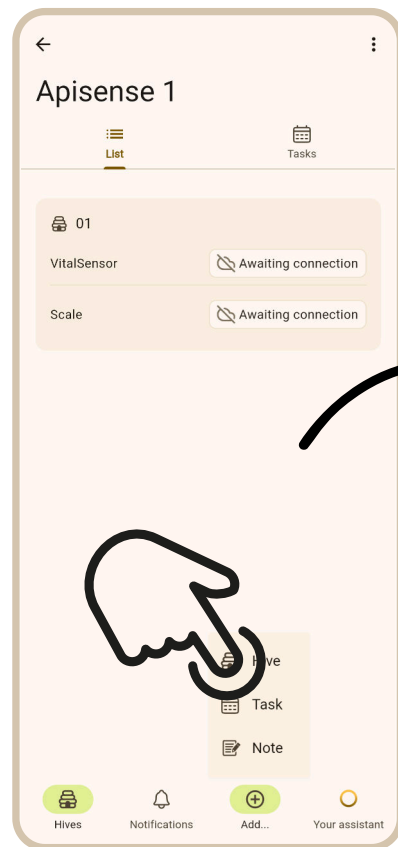
Further hives are added with a **ColonyLink** and a **VitalSensor**. The Scale stays under the first hive.

05.1 On the **Hive added** screen tap **Add another hive**. You can also tap **Add** in the apiary view and choose **Hive**.

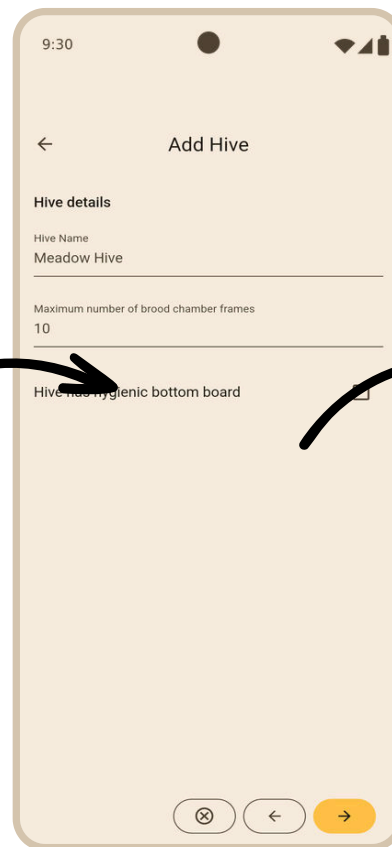
05.2 Scan the devices (next slide), then enter the **Hive name** and the number of frames.

05.3 Queen data are optional. Tap **Save**.

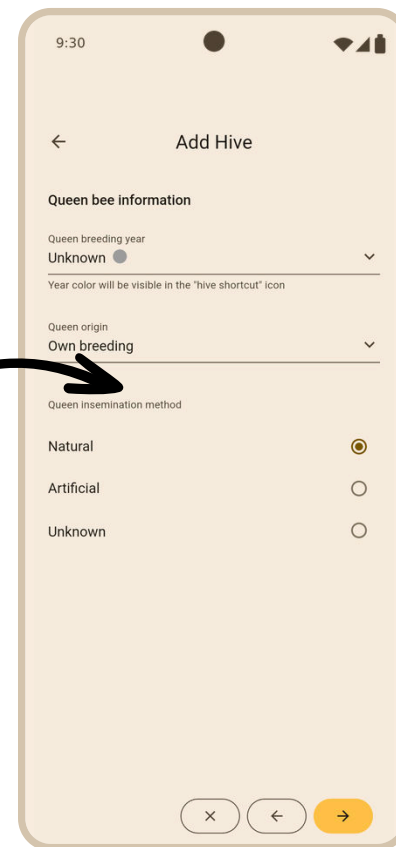
05.1



05.2



05.3

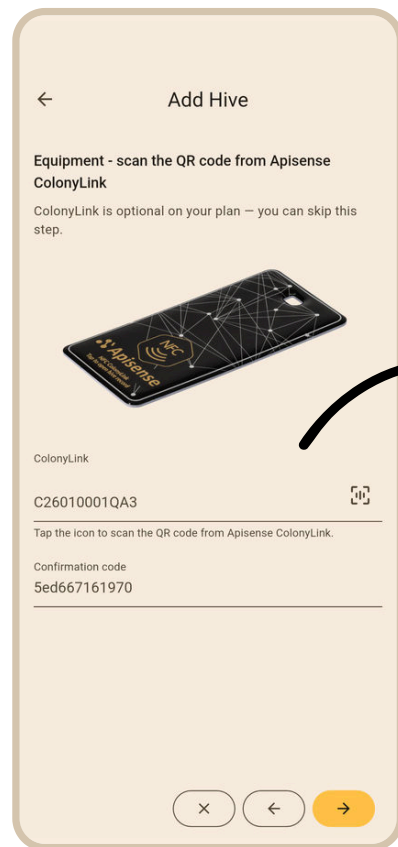


Equipment for the next hive

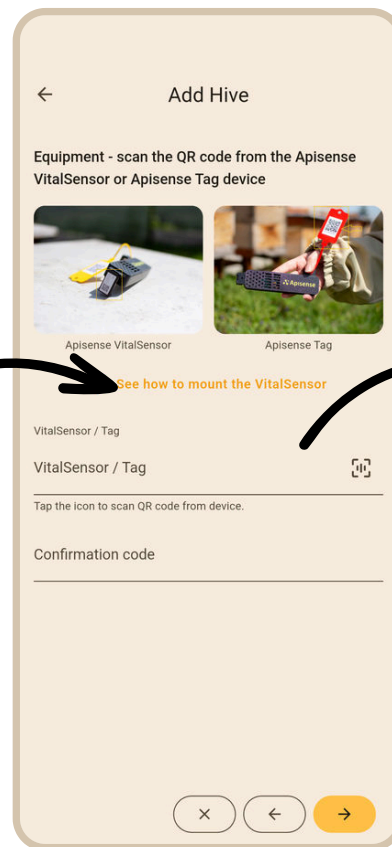
The app asks for the devices in a fixed order: **ColonyLink, VitalSensor, Scale**. The next hive has no Scale, so you skip that step.

- 05.4** Scan the ColonyLink QR code.
- 05.5** Scan the QR code from the VitalSensor.
- 05.6** For the Scale, tap **No Scale in this hive**. Then name the hive and tap **Save**. The hive appears on the list, awaiting connection.

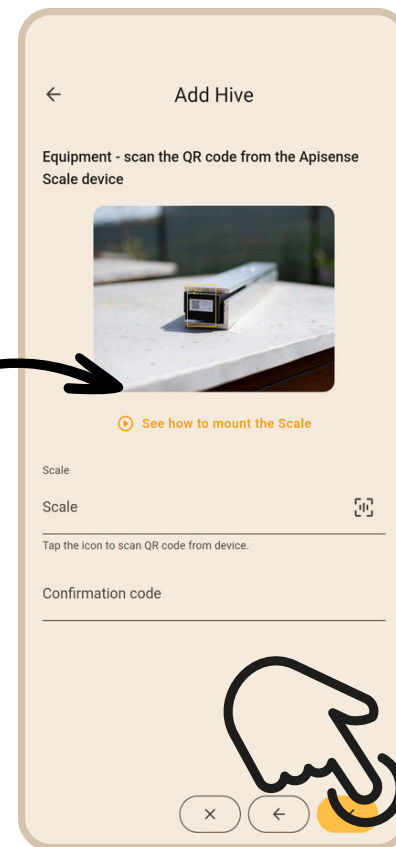
05.4



05.5



05.6



STEP 06

Power up and wait for data

The devices arrive with **batteries already fitted**, so there is nothing to insert. You add every device in the app and check its connection **before** anything goes into a hive, so you know everything works before you go out among the hives.

Hub

Put it in the sun: it runs on its photovoltaic panel.

First data

The first readings appear in the app within minutes to a few hours, depending on the Hub's charge. The **No data** status then turns into a live one.



Mount the Hub

The Hub runs on a photovoltaic panel, so **sunlight** decides where it goes, not proximity to a hive. Screw the camera mount from the kit onto a **mast or a tree**.

1-2 m Above the ground. Any lower and the panel may not gather enough light, especially in winter.

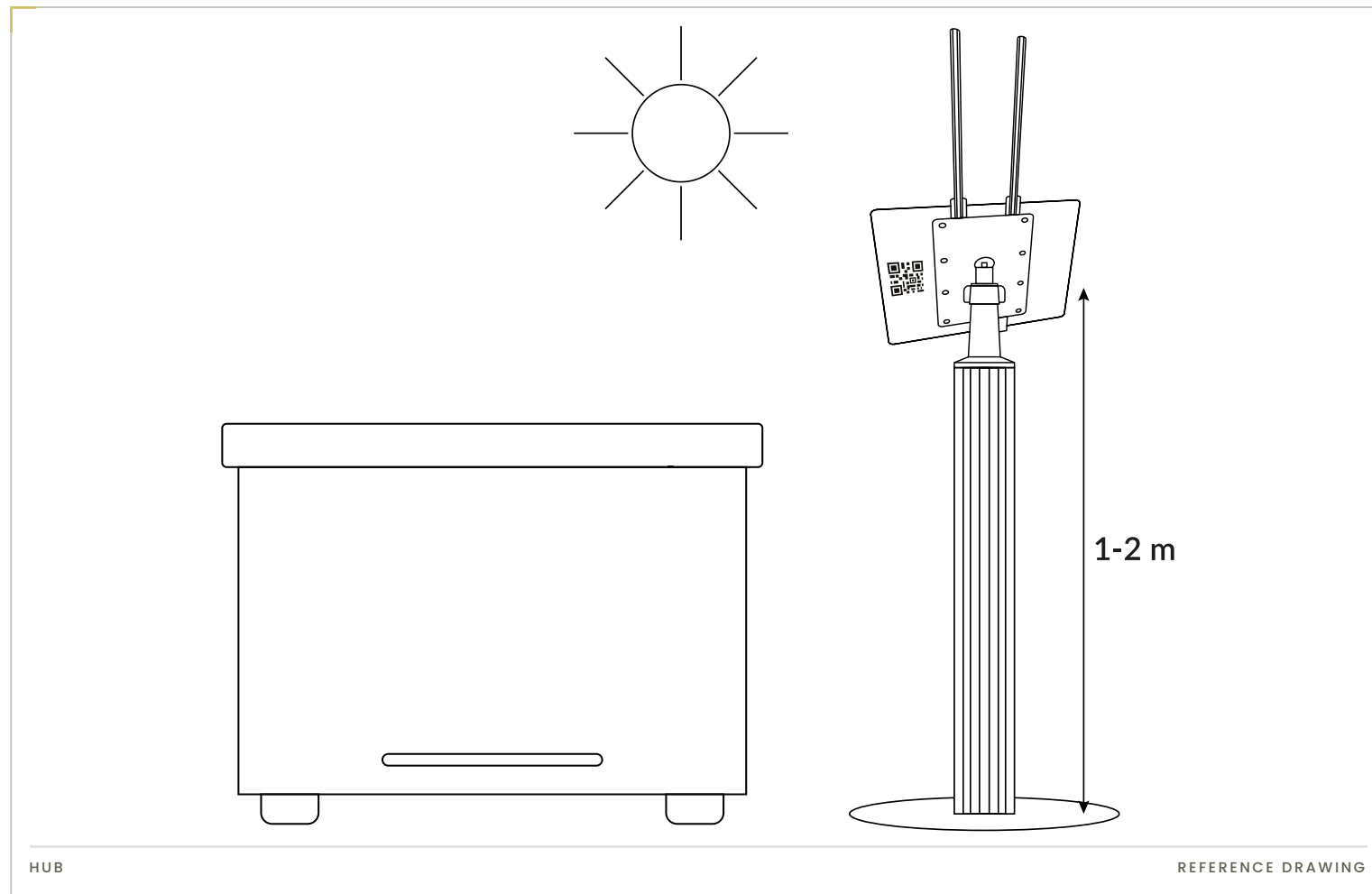
30-50° Tilt from horizontal (min. 20°), panel facing the sun, never shaded.

up to 35 m From the furthest hive with a VitalSensor or Scale. That is the BLE range.

Antennas One male, one female connector: each fits only its own socket. Point them **vertically upwards**.

Screw the antennas on first: by hand, gently, until they stop. No tools, no force. If one does not go on, it is the wrong socket: swap them. Force damages the thread.

IP44 · -20 to +55 °C. Do not install where water can stand or where the ground can flood.

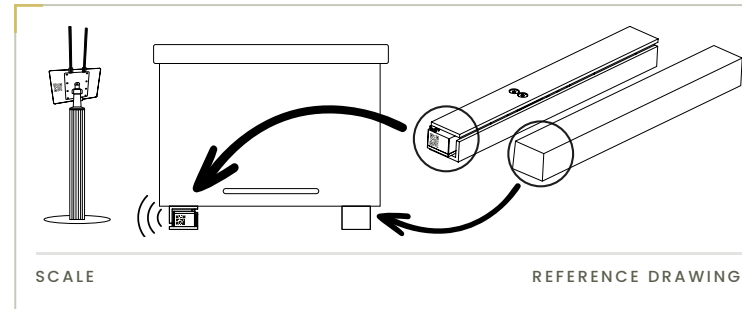


Place the Scale under the hive

The Scale and the wooden spacer bar form one supporting structure. Levelling and orientation are **critical for measurement accuracy**.

- 01 Put the powered Scale on firm, level ground, **perpendicular to the frames** in the hive.
 - 02 Lay the wooden bar parallel to the Scale, spaced so the hive weight is spread evenly.
 - 03 Point the black electronics box **towards the Hub**. It holds the BLE antenna, and the hive body must not shield it.
 - 04 Set the hive on the structure and check the load is still spread evenly.
- up to 35 m** From the Hub, with nothing blocking the BLE signal.

IP44 · -20 to +55 °C. Do not install where water can stand or where the ground can flood.



SCALE & SPACER BAR

PHOTO

Mount the VitalSensor in the hive

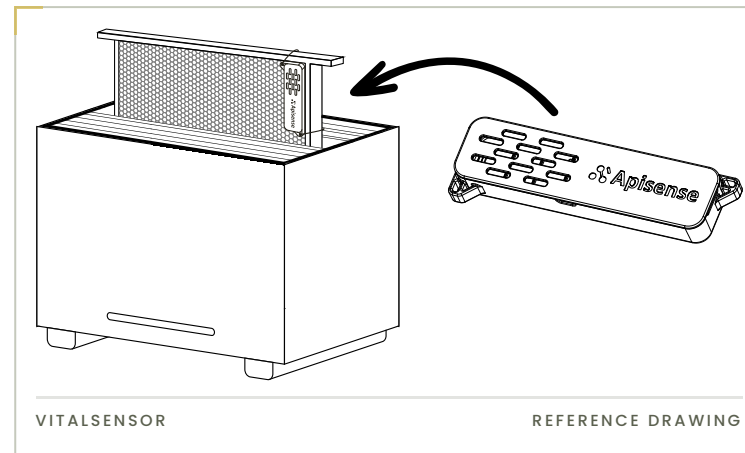
The sensor mounts non-invasively on a frame, with no permanent changes to the hive and no disturbance to the colony.

- 01 Fix the powered VitalSensor to the **central frame** (in the cluster), firmly enough that it cannot shift.
- 02 Mount it **vertically**, with the housing openings facing up; the QR sticker stays at the back.
- 03 Slide the frame into the middle of the brood body, without obstructing ventilation.

up to 35 m From the Hub (BLE range).

The VitalSensor is intended for the brood chamber only. Do not install it in the honey super or on frames used to harvest honey for consumption. This keeps the VitalSensor and the whole monitoring system working correctly. The sensor housing is made of food-contact-approved material.

Up to +55 °C and 95 % RH. Do not pour syrup, treatment products or other liquids onto the VitalSensor.



Hang the ColonyLink on the hive

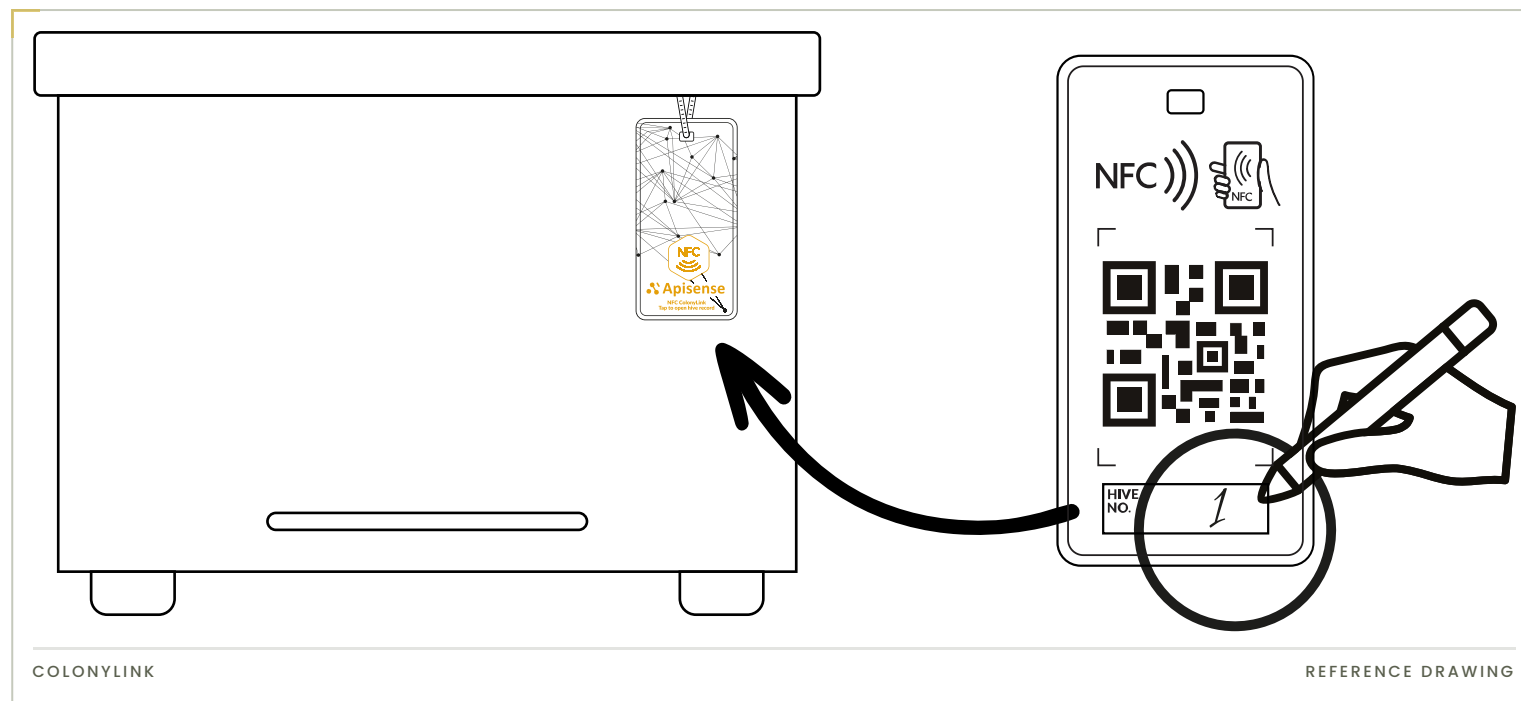
The ColonyLink is a **waterproof hanging card** with a built-in NFC tag and a printed QR code. Tapping your phone against it opens the right hive, even with gloves on and in full sun.

01 Pick a spot on the hive front that stays easy to see while you work.

02 Hang the ColonyLink by the hole at its top, with the Apisense logo and NFC side facing out.

03 The QR side faces the hive. You read the NFC side from outside, without opening the hive.

No battery The ColonyLink needs no power, no setup and no updates.



— ALL SET

Your hive is on air.

The Hub collects sensor data and sends it to the app. If readings are still missing after a few hours, check the batteries, the range and the troubleshooting list in the documentation.

bee@apisense.ai [Full configuration guide](#) [Troubleshooting](#) [Apisense documentation](#)