Corentium Home 2

Digital radon detector

Congratulations on taking this important step toward living a healthier life.

When you really understand your indoor air quality, you can make informed decisions to improve your home's air and minimize airborne risks to you and your family's health. Corentium Home 2 tracks three aspects of indoor air quality including radon, temperature and humidity.

This manual will guide you through setting up your new Airthings monitor and explain the sensors, common how-tos, and what to do if something goes wrong. We also recommend our online help center for additional, in-depth articles written by our customer support experts.

We hope you enjoy the peace of mind that Corentium Home 2 brings with its always-on, accurate measuring of the key factors affecting indoor air quality. Because when you breathe better, you live better.

The Airthings Team

P.S. Don't forget to register for your free 5-year extended warranty!

WHAT'S IN THE BOX

The box contains:

- Corentium Home 2 (fully assembled)
- 2 AA alkaline batteries (already installed)
- Quick Start guide
- Regulatory information guide
- 2 strips of double-sided tape

Your Corentium Home 2 comes fully assembled. You only need to remove the pull-tab from the back of the device so that the batteries begin to power the monitor. Then, simply place the device where you want it to monitor the air quality. See Quick Start Guide that comes with the product for detailed instructions and tips on where best to place the monitor.

ABOUT YOUR CORENTIUM HOME 2

Your device can be placed on in upright position, placed down on its back or hung up on the wall. To hang up the device, you will require a band that goes between the battery lock and the device.

Pull out the tab by the battery lid at the under side of the instrument.

The display shows up to 4 flashing dashes indicating the time left until radon levels are shown. In this phase, data is obtained for an initial radon level calculation. The phase duration depends on radon levels, but typically ranges from 6 to 24 hours. The indicator at the top right of the screen flashes when the instrument is active.

Place the instrument in living areas (e.g., bedroom and living room) and in places deemed representative of the air breathed in each living area. The instrument should not be exposed to direct sunlight or moisture, and should be placed at least 50 cm above floor level, and at least 150 cm from the nearest door, window or air vent. Moreover, it should not be moved during measurement.

Note: - Results on the first day must be regarded as a radon level indication only. Bear in mind that the longer the measurement period, the more accurate the measurement. -If the display shows 'Err' and ´See app´, proceed to Airthings app to contact support. You will find the Airthings app on Google Play for Android or App Store for Apple devices.

- Instructions on back
- Pressing Unit/Mode toggles imperial/metric (all 4 combinations)
- Long press (5s) toggles between EASY and FULL display modes
  Mode status shown in screen bottom for 5s
- “Restart(10s)” needs long press (10s) to work. Start calibration again and starts calculating averages again.
- Press both re-starts Bluetooth advertising for 1 hour

ABOUT THE SENSORS AND THRESHOLDS

Corentium Home 2 contains 3 sensors that measure levels of key contributors to indoor air quality.

		Measurements and thresholds
CO_2	**Radon** Non-Dispersive Infrared (NDIR)	pCi/L or Bq/m3 More than 4 pCi/L or 150 Bq/m3 Between 2.7-4 pCi/L or 100-150 Bq/m3 Less than 2.7 pCi/L or 100 Bq/m3
HUMIDITY	**Relative humidity**	% Over 70% Between 60 & 70% Between 30 & 60% Between 25 & 30% Below 25%
TEMP	**Temperature**	°F: Over 77°; Between 64° & 77° °C: Over 25°; Between 18° & 25°

		Below 64° Below 18° Because of personal preferences and varying local climates, the temperature measurements do not impact the glow indicator on the monitor. However, if you activate app notifications for temperature, they will be sent when the temperature enters a “red zone” as you see in the table.

SETTING UP YOUR CORENTIUM HOME 2

Step 1 - Download the Airthings app and create your account

Download the Airthings app from the Apple App Store or Google Play and create an account. If you already have an Airthings account, that’s great! You’ll only need to add your new Airthings monitor to it. Your phone finds and connects with Corentium Home 2 using Bluetooth LE.

For Android users: Google Android requires location permission to be enabled in order to use Bluetooth LE so it’s necessary to grant permission. This is not an Airthings requirement, nor do we collect or save your location data without your explicit permission. Need more information? Read more here.

Step 2 - Activate the monitor and add it to your Airthings account

Unbox the monitor and remove the pull-tab from the battery inside. It’s now activated and will start monitoring. Open the Airthings app and log into your account. Follow the in-app instructions to scan for and connect to the device.

Note: Make sure that Bluetooth is enabled on your smartphone or it won’t find the monitor!

Once you add your new Corentium Home 2 to your account, you will probably be prompted to update the firmware. This is necessary.

Step 3 - Connect Corentium Home 2 monitor to an existing Airthings hub

➔ *If you do not have an Airthings Hub or View series monitor already set up as a hub (plugged in), skip this and proceed to Step 4.*

Once your device has been successfully added to your Airthings account, you can connect it to your Airthings hub device.

If you are using a View series monitor as a hub, ensure that it is plugged into a power outlet. It will not work as a hub unless it is plugged in.

To link your new Corentium Home 2 monitor to the hub device, click the link icon that appears in the app with the Corentium Home 2 monitor and follow the instructions. You must be within Bluetooth range of the monitor during this process and it can take from 15 minutes or up to one hour for the connection to be established. Once connected successfully, you will see a signal strength indicator associated with the Corentium Home 2 monitor.

Step 4 - Place the monitor where you need it

Because of the combination of sensors it contains, Corentium Home 2 is great for living rooms, basements, bedrooms, the baby's room, or any other room where you want to measure radon levels. Remember that to get the most accurate readings, some of the sensors in the monitor require an initial adjustment period to gather enough data. Refer to Step 5 for more information.

Please follow these guidelines for optimal placement:

- Never place the device outdoors - Corentium Home 2 is designed only for indoor use. When placed outdoors the components can suffer irreversible damage from condensation and other factors. Damage to the monitor from use either outdoors or in extremely humid environments may void the warranty.
- Keep the device at least 1 meter (3 feet) from windows, doors, and vents that might interfere with accuracy of readings for the room's air.
- Try to place the device at the average "breathing height" in the room to take the most relevant measurements. For a bedroom, this would be at pillow height. As a rule, never place it higher than 6ft. (1.8m)
- If on a tabletop or other surface, make sure the surface is stable and that the monitor is placed where it's not likely to be tampered with, moved or knocked to the ground.

Step 5 - Calibrate and maintain your monitor

Most of the sensors inside your Corentium Home 2 will provide accurate readings immediately - like temperature and humidity. However, the radon sensor needs up to thirty days to calibrate to the space so it can before it acclimate to the space and provide the most accurate readings. You will see first indication of the radon levels after the first twenty-four hours.

The Airthings app indicates the remaining battery power for each monitor in your account so that you are aware when it's time to change them. For longer-life and optimal performance, we

recommend non-rechargeable, alkaline batteries. You can read more about battery recommendations here.

Note: When you change the monitor's batteries, it can take up to 1 hour for the remaining battery power to be updated in your Airthings app.

USING YOUR CORENTIUM HOME 2

The Airthings app is where you will interact the most with your Corentium Home 2. Unless your monitor is connected to an Airthings hub, you must have Bluetooth enabled on your smartphone and be within Bluetooth range whenever you want to check your air quality data. The monitor can also be used in offline mode (non connected).

In order for the monitor's sensors to calibrate fully to offer you the most accurate readings possible, we recommend that you keep the Corentium Home 2 in the same space and move it as little as possible. If you do want to use the device to monitor a different space, check out the tips here to get the best results.

The color of the indicator is determined by the current readings of the sensors:

	Air quality is good The current reading for each of the sensors are within the normal, healthy ranges.
	Air quality is fair At least one of the sensors is recording a reading that is in the *fair* range of values.
	Air quality is poor At least one of the sensors is recording a reading that is in the *poor* range of values.

To access detailed readings, open the Airthings app.

The two AA batteries should keep your Corentium Home 2 running for up to 18 months. If your Corentium Home 2 is connected to an Airthings Hub, you can expect it to last up to about 36 months. In any case, the time will come when you need to replace them. We recommend using non-rechargeable alkaline batteries. You may also use 1.5V lithium batteries (but definitely not 3V lithium batteries).

When you change the batteries, it can take up to one hour for the battery charge level to update in the app. But don't worry, the monitor will start taking its readings as soon as the new batteries are inserted.

When you remove the old batteries, all of the sensors automatically reboot. This means that the radon sensor needs to recalibrate so you might notice some fluctuations in those readings in the following few days until they are recalibrated.

NEED MORE HELP?

If you're still having trouble and you've followed the troubleshooting guidance above, it's always a good idea to search our knowledge base where we answer common questions about how Airthings monitors work and what to do when something goes wrong.

If you are looking for technical details about the product or sensors, check out the product sheet.

If you cannot find the help you need there, you can contact our Customer Success team in the following ways:

- **Live web chat**: Our representatives are available on the airthings.com chatbot 18 hours a day, Monday through Friday.
- **Email**: Email our team at support@airthings.com and we will reply to you within 24 business hours. Remember to:
    - Attach any photos or screen captures that may help to describe the problem.
    - Include your monitor's serial number which you can find inside the unit by removing the back plate.
    - Confirm the email address associated with your Airthings account in the case you send the email from a different address.