

Corentium Home by Airthings

Digital Radon Detector

User manual
Guide d'utilisation
Bedienungsanleitung
Brukerveiledning
Användarmanual
Käyttöopas

Valid for instruments with serial number
23XXXXXXXX/24XXXXXXXX

Valide pour appareils avec numéros de série
23XXXXXXXX/24XXXXXXXX

Für Geräte mit Seriennummer
23XXXXXXXX/24XXXXXXXX

Gyldig for instrumenter med serienummer
23XXXXXXXX/24XXXXXXXX

Gäller instrument med serienummer
23XXXXXXXX/24XXXXXXXX

Voimassa laitteille sarjanumerosta
23XXXXXXXX/24XXXXXXXX alkaen

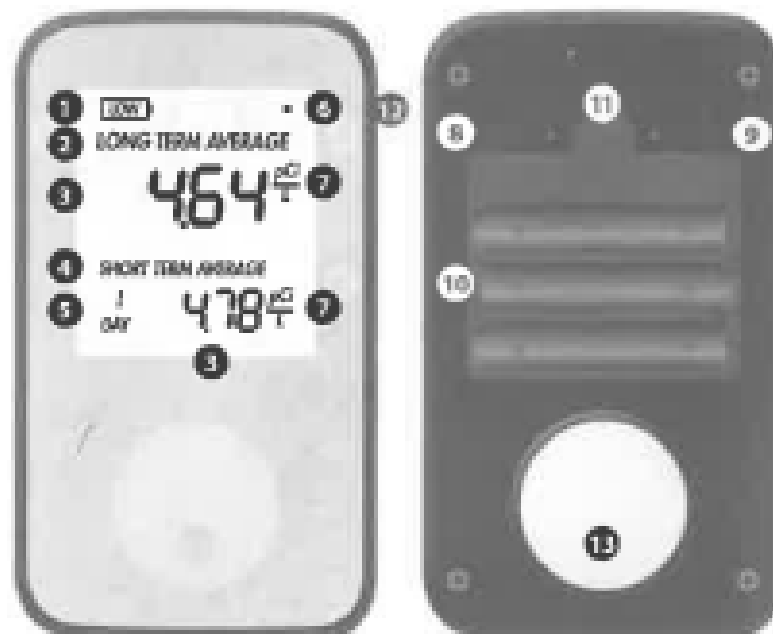
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Supplementary information about the product can
be found at www.airthings.com

V4.3

Airthings AS, Oslo, Norway
www.airthings.com

ENGLISH – US version



KEY TO FIGURE

1. Low battery level indicator. Change batteries as soon as possible when this icon appears
2. 'LONG TERM AVERAGE'. Long term average
3. Measuring value
4. 'SHORT TERM AVERAGE'. Short term average
5. Measurement period for short term average. Ranges between 1 and 7 days
6. Measurement indicator. Blinks when the instrument is active
7. Unit of measure: pCi/L (Pico-curie per liter of air)
8. 'RESET'. Reset button. Use to start a new measurement period. Note: Removes all stored data from the previous measurement
9. 'MODE'. Button to display number of measurement days since the last reset. Appears on the screen for 20 seconds
10. Battery holder for 3 x AAA alkaline batteries (LR03)
11. Opening of battery cover
12. USB input.
For use by manufacturer only
13. Serial number (SN)

SAFETY

Please contact the seller should the instrument require service or repair. The instrument should not be opened.

Avoid dropping or hitting the instrument, as well as pressure, vibration, dust and moisture. Condensation may occur if the instrument is moved from a place with high humidity to a cold place. If moisture condensation occurs, remove the batteries and place the instrument in a dry place for 2 hours. The instrument should not be exposed to direct sunlight for long periods.

Use only AAA alkaline batteries (LR03). Batteries must not be exposed to flame or other high heat sources. Battery terminals shall not be touched and kept free of dust, sand and liquids.

GETTING STARTED

1. Pull out the tab by the battery lid at the underside of the instrument.
2. The display shows 'CAL' (calibration) and counts up to minimum 50. The instrument self-test in this phase. Duration less than 30 sec.
3. 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.
4. 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.
5. 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 a number, press RESET, remove and reinsert the batteries after cleaning its contacts. If the 'Err' persists, contact the seller for support.

USING THE INSTRUMENT

- The long term average represents the average radon value for the ongoing measurement, max one year (updated once a day).
- The short term average alternates between showing radon values for the last day (updated hourly), and for the last seven days (updated once a day).

The long term average is intended to identify potential health hazards. The short term average is intended to assess the effects of measures to reduce radon levels - for example, increased ventilation. The short term average can also be used to provide an indication of radon levels. It may provide relevant (albeit general) information when long-term measurement is not possible.

World Health Organization (WHO) recommends that the annual average concentration of indoor radon should be below 2.7pCi/L.

Proposed measurement method: Buildings can be diagnosed by measuring all living areas - e.g., living rooms and bedrooms - for at least one week. For a more accurate value, this should be followed by a long-term measurement (for at least 2 months) in the room with the highest radon value. **Note:** Follow the recommendations from national authorities for measurement methods, measurement period and safe levels.

RESET is used to restart the instrument before a new measurement. This operation removes all stored radon data. Remember to note all previous measurement before using the RESET button.

MODE is used to get information on the number of measurement days since the instrument started for the first time or the last RESET operation. This information is displayed on the lower half of the screen for 20 seconds before the screen returns to the ordinary display.

It is recommended to keep the instrument continuously ON. Replace the batteries when the battery indicator shows low level on the display. **Note:** Upon battery replacement, the instrument is reset and all stored data deleted.

RESPONSIBILITY

The instrument is tested and quality-assured by production. It meets the accuracy values set out in the specification table, unless the unit has measured continuously high radon levels (hundreds of pCi/L) over several years.

Instrument and batteries should not be disposed of as household waste. The materials used in the instrument are recyclable. It is the consumer's environmental responsibility to ensure that electronics and batteries are disposed of according to applicable waste management laws. Consumers should contact the seller or local authorities for information on environment-friendly disposal.

Airthings AS shall not be liable for damages related to failure or loss of data arising from incorrect operation and handling of the instrument.

TECHNICAL SPECIFICATIONS

Power Supply	3 AAA alkaline batteries (LR03) 2 years battery life
Dimensions	4.7 in × 2.7 in × 1 in
Weight	0.3 lbs (incl batteries)
Operation Environment	Temperature: 39 °F to 104 °F Relative Humidity: < 85 %
Measurement Range	Lowest detection limit: 0 pCi/L Upper display limit: 500.0 pCi/L
Accuracy/Precision at 5.40 pCi/L (Typical)	
7 days	10 %
2 months	5 %