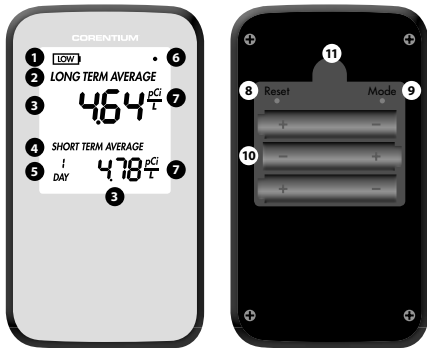


CORENTIUM®

Digital Radon Monitor

model QRI

User manual



The menu options may differ from what is illustrated in this user guide.

KEY TO FIGURE

- Indicator for low battery level. Replace batteries when lit.
- 'LONG TERM AVERAGE' measurement mode
- Measured value
- 'SHORT TERM AVERAGE' measurement mode
- Measurement period for short term average. Alternates between 1 and 7 days
- Indicator for measurement. The unit is active when flashing
- Unit of measurement: pCi/L
- 'RESET'. Used to start a new measurement period. WARNING: Deletes all stored data!
- 'MODE'. Displays the number of days measured since the previous reset in section 5 on the display.
- Battery compartment for 3 x LR03, alkaline AAA batteries
- Opening the battery cover

SAFETY

Contact the seller if the product requires service or repairs. The front or back cover must not be opened.

Avoid subjecting the unit to shock, impact, pressure, vibrations, dust and moisture. Condensation can occur if the unit is moved from a location with high atmospheric humidity to a cold location. If condensation occurs, remove the batteries and leave the unit in a dry environment for 2 hours. The unit must not be exposed to direct sunlight for extended periods. The unit must be stored under dry conditions, if possible together with a desiccant such as silica gel.

Use only batteries of type LR3, alkaline AAA batteries. The batteries must not be exposed to fire or other extreme heat. The battery terminals must not be touched, and they must be kept free from dust, sand, liquids and other foreign objects.

LIFETIME

The monitor is tested and quality assured at production. It meets the accuracy specified in the specification table, unless it is continuously measured at high radon levels (in the range of 140 pCi/L) over years. We recommend that the unit is left on all the time.

GETTING STARTED

- Insert the supplied batteries. Please observe correct polarity of your batteries and make sure you install them in the correct orientation as advised by the marking in the bottom of the battery compartment. Measurement will start automatically after about 3 minutes. This is indicated by a flashing measurement indicator at the top right of the screen
- If the screen displays the error message 'Err' and a number: press the RESET button, remove the batteries and put them back in
- Position the unit in a living area (for example a bedroom or living room), and in a location that is representative of the air that is breathed in this room
- The unit should not be exposed to direct sunlight or electromagnetic radiation; it should be positioned lying flat at least 25 cm from the nearest wall, at least 50 cm above the floor, and at least 150 cm from the nearest door, window or ventilation device
- To permit self-calibration, the unit should remain untouched for the first few minutes after start-up
- N.B.: Dependent on the radon level, expect a few hours before the display shows other than 0 pCi/L. During the first few days, the reading should be regarded only as an indication of the radon level

HOW TO USE THE MONITOR

- The long term average (LONG TERM AVERAGE) is the average radon value over the last year (updated once every 24 hours)
- The short term average (SHORT TERM AVERAGE) alternates between showing the radon value over the last day (1 DAY – updated every hour) and over the last 7 days (7 DAYS – updated once every 24 hours)

The long term average is used to identify any potential health risk. The short term average is used primarily to see the effect of measures to reduce the radon level – for example by increasing the ventilation.

The building can be diagnosed by taking measurements for one week in all living areas, such as living rooms and bedrooms. This should preferably be followed by long term measurement in the room which has the highest radon value. For long term measurement period and action level we recommend to follow the guidelines from the national radiation authority.

The RESET button is used when the monitor is moved in order to take a new measurement. This deletes all stored radon data. Remember to note the previous measurement before using the RESET button.

The MODE button is used to obtain information on how many days measurements have been taken since the monitor was

started for the first time, or since the RESET button was last depressed. This information is displayed on the lower half of the screen for 20 seconds, after which the screen reverts to the regular display.

Use the end of a paper clip to press the RESET and MODE .

It is recommended that the monitor is activated continuously, and that the batteries are not removed. The batteries last for about 3 years, and they can be replaced without stored data being deleted.

RESPONSIBILITY

The monitor and the batteries must not be disposed of as ordinary household waste. The materials used in Corentium can be recycled. It is the user's environmental responsibility to ensure that electronic equipment and batteries are disposed of in accordance with national regulations. Users should contact the seller or their local authority for information about environmentally friendly waste disposal.

Corentium has a 1-year warranty against system failure. In the event of incorrect use or operation of the monitor, Corentium AS cannot be held responsible for any losses resulting from failure or from the loss of measurement data.

See www.corentium.com for sales terms.

SPECIFICATION	
Sampling Method	Passive radon diffusion chamber
Detection Method	Alpha spectrometry
Power Supply	3 AAA alkaline battery (LR03) 3 years battery life-time
Power Consumption	< 250 μ W
Dimensions	120mm \times 69mm \times 22.5mm
Weight	130 grams (incl. batteries)
Operation Environment	Temperature: 0 °C to +40 °C Relative Humidity < 95%
Measurement Range Lower detection limit Upper display limit	0 pCi/L 9999 pCi/L
Precision (at 2,7 pCi/L) 7 days Long term	20% 10% after 1 month
Accuracy	5% \pm 0,14 pCi/L

© 2014 Corentium AS. All rights reserved.

CORENTIUM® is a registered trademark of Corentium AS.

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

USV2.1

Designed and manufactured in Norway

Corentium AS, Oslo, Norway