Solutions for a healthy indoor environment

Rapidos
Alpha Track Detector

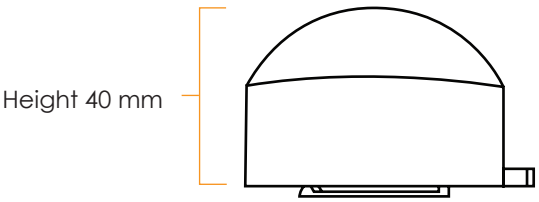
Alpha track detector for short term measurements

Greater air volume doubles the detection speed to provide an improved statistic for short term measurement.

Detector employs alpha track technique for measurement. Device is composed of film elements inside anti-static plastic housing. Radon enters by diffusion.

Detector analysis performed using state-of-the-art image scanner at the Landauer C-NRPP accredited laboratory.

Exposure results expressed in Bq/m^3.



Detector	Dwellings/workplaces
Measurement range (Bq/m^3)	37 – 100,000 at 10 days
Normal exposure duration (days)	10 – 30
Uncertainty (%)	10% at 50 kBqh/m^3 (10 days at 200 Bq/m^3)
Basis of uncertainty	1 sd
Diametre (mm)	58 (63.5 with hanger)
Height (mm)	40 (43 with clip)
Holder type	Closed, with filter
Holder design	Rapidos own (black)
Holder antistatic measures	Conducting holder
Detector material	CR39/PADC

Radon Environmental is partnered with Landauer Radon to bring the latest alpha track technologies to Canada.
Learn more about our strategic relationships and how the newest radon detection and mitigation products are changing the industry's approach to radon mangement. Visit www.radoncorp.com.

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Radon™ Environmental

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Access and manage your data whenever you chose with the secure **MyData** customer interface.

Rapidos detectors should be returned to the Landauer Radon laboratory for analysis within 6 months of client receipt.

Rapidos Short Term Radon Test

INSTRUCTIONS FOR SHORT TERM RADON MEASUREMENT

1. Read the instructions on DEPLOYMENT PROTOCOL and PLACING THE DETECTORS. Then follow the custom user link in your email to the **MyData** user interface. Fill in the measurement details online and register the start time and location of the detectors. Save your data.

2. The detectors should then be placed according to the instructions, and the measurement period should be at least 10 days. Closed-building conditions generally prevail during the cold season from October to April. To provide closed-building conditions outside the cold season, the occupants may have to adjust their lifestyle for the duration of the measurement. See the recommended deployment protocol below. The measurement starts when the radon-proof plastic bag is opened.

3. After the measurement is completed, log in to **MyData** and register the end date and time online. Start and end dates and times are needed for calculation of the radon concentration. Complete any remaining form details and submit your data. Return detectors for laboratory analysis inside the provided envelope.

DEPLOYMENT PROTOCOL

Short term measurements lasting between 10 and 30 days should be made under closed-building conditions. Windows on all levels and external doors should be kept closed (except during normal entry and exit) during the measurement period. In additions, external-internal air exchange systems (other than a furnace) such as high-volume, whole-house and window fans should not be operating. However, attic fans intended to control attic and not whole building temperature or humidity should continue to operate. Combustion or make-up air supplies must not be closed.

PLACING THE DETECTORS

The measurement should be made in a normal occupancy area of the lowest lived-in level of the home. The normal occupancy area is defined as any area occupied for more than 4 hours per day.

The detector should be put in a room that is regularly used such as a livingroom, den, or bedroom, but not in a kitchen or bathroom.

- At a height of 0.8 m to 2 m (3 to 6.5 feet).
- At least 50 cm (20 inches) from ceiling and 20 cm (8 inches) from other objects so as to allow normal airflow around the detector.
- Approximately 40 cm (16 inches) from an interior wall.
- Approximately 50 cm (20 inches) from an exterior wall.

If you have any questions regarding the measurement performance, contact us at:

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Telephone 1.888.527.4717

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