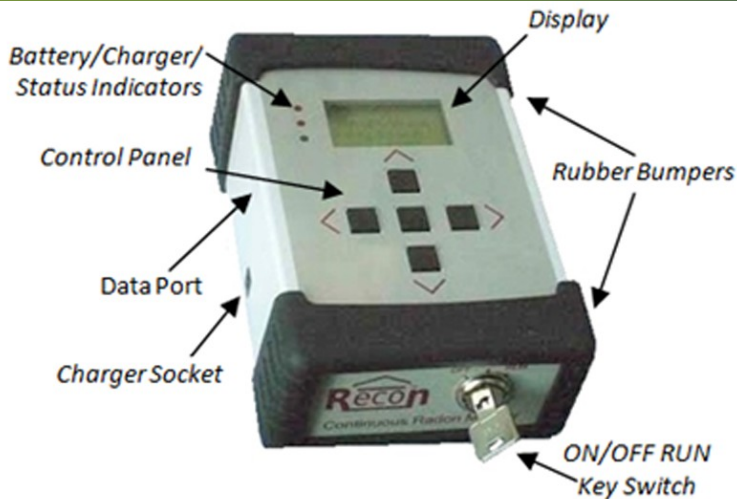


Recon™

Continuous Radon Monitor



The Recon™ is a high sensitivity and high reliability radon monitor for professional use. It is designed for the way you like to test for radon gas. This includes accurate two-day screening tests, one-week radon testing and analysis in public buildings, mitigation job monitoring and long-term monitoring according to Health Canada guidelines.

The Recon functions as a data-logger, storing the measured radon and environmental values in its large memory. Up to 15 sessions of data can be stored in memory.

Your computer handles data analysis and produces reports as PDF files. Use either the Recon Downloading Tool Software (supplied), or the Radon Report Manager software. You can either print these or send to your client by email.

- ♦ Accurate
- ♦ High Sensitivity
- ♦ Environmental Sensors
- ♦ Tamper Detection
- ♦ Rugged
- ♦ Easy to Use
- ♦ Full Reports
- ♦ Calibrated

Typical Applications

1. Short-term Radon Tester

Accurately measure radon gas levels. Determine if radon levels are above or below recommended guidelines. Ideal for 2 to 5-day tests in property transactions.

2. One-week Building Characterization

In a radon inspection at a school or commercial building, measure radon during occupied and unoccupied portions of the day. You can quickly determine the relation between the average radon level and the radon present during occupied times.

3. Radon Mitigation

As the mitigation job progresses, monitor indoor radon levels to suggest mitigation strategy. Measure hourly radon levels during the full time that you are on-site.

4. Building Science Research

The reports are hourly; data is stored internally in 10-minute intervals. The raw data can be imported by Excel, Matlab and other analytical software for detailed analysis.

Radon Reconnaissance

Computer Display



Included with the Recon Radon Monitor

- Recon Download Tool software on USB drive for Windows, Mac OS and Linux
- USB data cable
- Battery charger, universal voltage
- Radon QA/QC plan
- User's Manual
- Calibration certificate



Report Includes

- Deployment details
- Average measured radon level
- Environmental data
- Profile graph
- Hourly data
- Tamper indication

Optional Item

- Heavy-duty carry case, rugged, hard-side, lockable



™Recon is a trademark of Rad Elec, Inc.

High Reliability

The Recon uses high-sensitivity solid state alpha decay sensors for radon gas that are not affected by temperature, humidity, radon daughters, air currents or gamma radiation levels. This produces hourly data with high accuracy. It uses instrument-grade sensors to continually record environmental parameters.

The environmental sensors help ensure test validity, repeatability and serve in interpreting the results.

The Recon requires annual calibration to meet C-NRPP quality control requirements in Canada.

Recon Colour Customization

Panel Colour
 Standard Light Grey
 Optional Black

Button Colour
 Standard Black
 Optional Ivory

Bumper Colour
 Standard Black
 Optional Blue
 Optional Grey

Specifications

- Output Reading: Radon gas concentration (Rn-222)
- Measurement Type: Continuous Radon Monitor (CRM)
- Sampling Method: Passive air diffusion with no moving parts
- Detector: Solid state alpha detectors in dual ion chambers
- Units: Bq/m³ or pCi/L (selectable) in report
- Sensitivity: 0.38 CPH per Bq/m³ (13.5 CPH per pCi/L) typical
- Lowest Level of Detection: 22 Bq/m³ (0.6 pCi/L)
- Tamper Detection: Accelerometer to detect movement. Adjustable sensitivity
- Controls: Keyed switch for RUN/STOP/OFF with keypad lock-out during test
- Time: Internal real-time clock
- Power Supply: Internal NiMH rechargeable battery, 96-hour capacity
- Battery Charger: Universal 100-240 V, 50-60 Hz
- Compact Size: 18.5 x 13 x 7.5 cm (7.3" x 5.1" x 3.0")
- Light Weight: 0.85 kg (1.9 lb.)
- NRPP Approval: Device code 8204 (Canada and USA)
- Durability: Withstands 3G shock
- Memory Capacity: 255 days
- Environmental Sensors: Temperature, humidity, barometric pressure
- Reliability: Self test at power-on
- Operating Temperature: 0 - 40° C
- Operating Humidity: 0 - 85% RH
- Sampling Interval: Ten minutes for internal data storage. One hour for reports
- Timer: To set test start and test duration, selectable
- Display: LCD, backlit. Selectable ON/OFF Shows time, current and total test radon concentration, temperature, humidity, barometric pressure
- Deployment: Desktop, shelf or tripod mount
- One-year factory warranty

Report Examples

Radon Test Report

18-Feb-2018

Customer Information: Central School	Test Site: Main Building
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A Rad Elec Recon® CRM (NRPP Device Code #8304) was used for radon screening measurements that conducted at the above referenced test site by: Okanagan Radon Busters

The results are as follows:

Serial#	Instrument	Location	Start Date/Time	End Date/Time	Result
163	Recon CRM	Basement	02-16-2018 14:00	02-18-2018 19:37	

Average Radon Concentration in: Basement 209 Bq/m³

Analyzed By: Dave
 Deployed By: Dave
 Retrieved By: Dave

Cal. Date: 1/9/2018 Cal. Due: 01/0

Protocol: Closed Building Conditions Met
 Tampering: No Tampering Detected
 Weather: No Abnormal Weather Conditions
 Mitigation: No Mitigation System Installed
 Comment: Thanks for the business!

Radon Health Risk Information

Short-term radon measurements were conducted according to Health Canada Guidelines. Radon is the leading cause of lung cancer amongst non-smokers, and the second leading cause of lung cancer for smokers. Long-term verification tests are recommended. Health Canada recommends that remedial measures be taken when the average radon concentration exceeds 200 Bq/m³ in the normal occupancy areas. Higher radon levels, the greater the health risk to the occupants. The average radon level in Canadian homes is 45 Bq/m³. Reducing your radon level can be done effectively and fairly inexpensively. Even homes with very high radon levels can be remediated. Please refer to the guide "RADON Radon Guide for Canadian Homeowners", published by Health Canada, for further interpretation and for determining if remedial measures are needed.

Graphical Radon Report

18-Feb-2018

Customer Information: Central School	Test Site: Main Building
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A Rad Elec Recon® CRM (NRPP Device Code #8304) was used for radon screening measurements that conducted at the above referenced test site by: Okanagan Radon Busters

The results are as follows:

Serial#	Instrument	Location	Start Date/Time	End Date/Time	Results
163	Recon CRM	Basement	02-16-2018 14:00	02-18-2018 19:37	209

Average Radon Concentration in: Basement 209 Bq/m³

Legend: Avg Radon Concentration (Bq/m³), %Humidity, Temperature (°C), Pressure (mbar)

Hourly Radon Report

18-Feb-2018

Customer Information: Central School	Test Site: Main Building
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A Rad Elec Recon® CRM (NRPP Device Code #8304) was used for radon screening measurements that were conducted at the above referenced test site by: Okanagan Radon Busters

The results are as follows:

Serial#	Instrument	Location	Start Date/Time	End Date/Time	Results (Bq/m ³)
163	Recon CRM	Basement	02-16-2018 14:00	02-18-2018 19:37	209

Average Radon Concentration in: Basement 209 Bq/m³

Records#	Date/Time	Radon (Bq/m ³)	Temperature (°C)	Pressure (mbar)	Humidity (%)	Tilt
1	2018-02-16T15:00	184	20	998.9	32	0
2	2018-02-16T16:00	278	17	1000.5	33	0
3	2018-02-16T17:00	270	17	1002.1	33	0
4	2018-02-16T18:00	299	17	1003.9	34	0
5	2018-02-16T19:00	298	17	1004.9	34	0
6	2018-02-16T20:00	270	17	1005.9	34	0
7	2018-02-16T21:00	275	17	1006.9	34	0
8	2018-02-16T22:00	201	17	1007.7	34	0
9	2018-02-16T23:00	246	17	1008.5	34	0
10	2018-02-17T00:00	211	17	1009.0	34	0
11	2018-02-17T01:00	221	16	1009.8	34	0
12	2018-02-17T02:00	256	16	1010.8	33	0
13	2018-02-17T03:00	190	16	1011.1	33	0
14	2018-02-17T04:00	239	16	1011.1	33	0
15	2018-02-17T05:00	206	16	1011.1	33	0
16	2018-02-17T06:00	213	16	1011.4	33	0
17	2018-02-17T07:00	232	16	1011.8	33	0
18	2018-02-17T08:00	206	16	1011.9	33	0
19	2018-02-17T09:00	195	16	1011.9	33	0
20	2018-02-17T10:00	175	17	1011.8	33	0
21	2018-02-17T11:00	237	17	1010.6	34	0
22	2018-02-17T12:00	180	17	1009.5	34	0
23	2018-02-17T13:00	180	17	1008.4	34	0
24	2018-02-17T14:00	135	17	1007.0	34	0
25	2018-02-17T15:00	173	17	1005.7	34	0
26	2018-02-17T16:00	192	17	1004.4	34	0
27	2018-02-17T17:00	161	17	1003.7	34	0
28	2018-02-17T18:00	168	17	1003.4	35	0
29	2018-02-17T19:00	180	17	1002.9	35	0
30	2018-02-17T20:00	199	17	1002.2	35	0
31	2018-02-17T21:00	192	17	1001.9	35	0
32	2018-02-17T22:00	201	17	1001.1	35	0
33	2018-02-17T23:00	187	17	1000.6	35	0
34	2018-02-18T00:00	230	17	1000.1	34	0

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