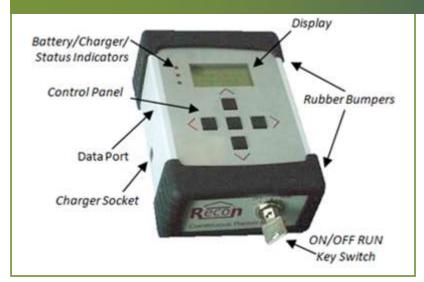
## Recon<sup>TM</sup> Continuous Radon Monitor



The Recon™ is a rugged and versatile radon monitor for professional use. With high sensitivity and high reliability, 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
- vitv
- Tamper Detection
- High Sensitivity

Environmental Sensors

- RuggedFull Reports
- Easy to Use
- Calibrated

### **Typical Applications**

### 1. Short-term Radon Tester

Accurately measure radon gas levels. Produces a finished test report with hourly and average values. Ideal for 2 to 5-day tests in property transactions.

### 2. One-week Building Characterization

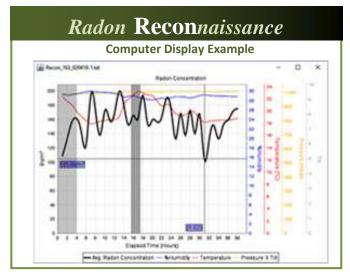
In a radon inspection at a school or commercial building, measure radon during occupied and unoccupied portions of the day. Reports the average radon level and the radon level during occupied times.

### 3. Radon Mitigation

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

### 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.



### <u>Included with the Recon</u> <u>Radon Monitor</u>

- 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

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### **Report Includes**

- · Deployment details
- · Average measured radon level
- Environmental data

### **Optional Item**

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

- Profile graph
- Hourly data
- · Tamper indication



™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

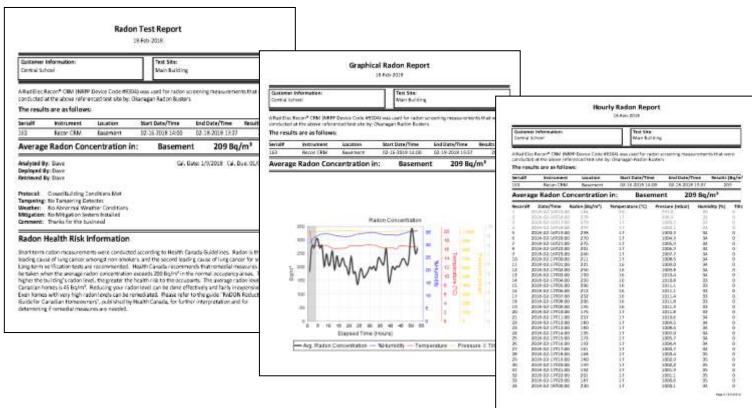
### Button Colour Standard Black Optional Ivory Bumper Colour Standard Black Optional Optional Grey Optional Grey

### **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/m<sup>3</sup> or pCi/L (selectable) in report
- Sensitivity: 0.38 CPH per Bq/m<sup>3</sup> (13.5 CPH per pCi/L) typical
- Lowest Level of Detection: 22 Bq/m<sup>3</sup> (0.6 pCi/L) for hourly values
- 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") including rubber bumpers
- Light Weight: 0.85 kg (1.9 lb.)

- NRPP Approval: Device code 8204 (Canada and USA)
- · 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**





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