

Radon Scout

Accurate, Rugged and Easy-to-Use

Radon Scout Plus

The Radon Scout and the Radon Scout PLUS (with display) are accurate, rugged and easy-to-use continuous radon monitors for professional use. The Scout is well-suited for both short-term and long-term measurement of radon gas. It is an ideal radon data logger for both radon screening and for mitigation work.

The Scout is used with a computer (XP, Vista, Windows 7, 8 and 10) for data retrieval and analysis using the supplied Radon Vision Software. Except for the RUN/STOP switch, it has no user controls. All setup, measurement and data transfer functions are handled by the Radon Vision Software.

The Scout does not require line power. It will operate more than 90 days on fresh alkaline batteries.



Software Features

- Easy to setup and download data
- Interactive graphical display – zoom, pan, fit, data-cursor, marker for tilt and start of a new measurement
- Simple intuitive user interface
- Printed reports with space for user comments
- Average radon concentration and exposure
- Select either SI or US units
- Display +/- error % for measurements
- Data smoothing
- Select time span of interest for calculating the average radon level
- Automatic file names and folder structure
- Data analysis even when measurement underway
- Data export in ASCII characters for EXCEL format
- Direct reading by EXCEL
- Data recording lock/unlock
- Create PDF files of the reports and review.
- Store and review multiple sets of measurement data without erasing memory

Note: The computer needs to have an available USB or 9-pin serial socket

Included with the Radon Scout

- Radon Scout (or Radon Scout PLUS) data logger
- Radon Vision software disk, version 6.07, for XP, Vista, Windows 7, 8 and 10
- 9-pin serial cable, with USB adapter
- Batteries
- Calibration certificate
- Instruction manual
- Radon QA/QC plan
- Tamper-resistant case

Optional Item

- Tripod adapter clamp



Applications



Radon Testing:

Accurately measure radon gas levels. Determine if radon levels are above or below recommended guidelines. In a radon inspection at 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.

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, and for two days after completion. Where radon levels are high, you can select a shorter integration time such as 15 minutes, with the Radon Scout PLUS. Analysis is fast and easy with the Radon Vision software. Select areas of interest (AOI) at the beginning, at different stages during the remediation and at completion to verify the mitigation's effectiveness.

The Scout uses a solid state alpha decay sensor for radon gas that is not affected by temperature, humidity, radon daughters, air currents or gamma radiation levels to ensure accurate and repeatable results. It uses instrument-grade sensors to continually record environmental parameters. This helps ensure test validity and helps in interpreting the results.

	Radon Scout	Radon Scout Plus
		
Sampling Interval	1 or 3 hours	1 to 255 minutes
Maximum Sampling Intervals	672 intervals	2047 intervals
Data recording time with 3-hour interval	84 days	255 days
Display	None	Alternates each minute between two display screens showing: Average radon during last hour, error percentage, time, barometric pressure, temperature, relative humidity, battery voltage, average radon during entire test, date and time started, elapsed time in current interval, interval length, number of intervals elapsed.
Environmental Sensors	Relative humidity, temperature	Relative humidity, temperature, barometric pressure
Line Power Operation	None	AC Adapter 120 V, 60 Hz included to reduce battery usage

Specifications

- Output Reading: Radon gas concentration (Rn-222)
- Measurement Type: Continuous Radon Monitor (CRM)
- Sampling Method: Passive air diffusion
- Detector: Solid state alpha detector, ion-implanted silicon
- Dynamic Range: 0 to 10 MBq/m³
- Units: Bq/m³ or pCi/L (selectable)
- Sensitivity: 0.108 CPH per Bq/m³ nominal (4 CPH per pCi/L)
- Accuracy: +/-10% + statistical uncertainty
- Response Time: 120 minutes to 95% of final value
- Tamper Detection: Tilt monitor 2 G to detect movement
- Controls: RUN/STOP switch with lock-out control
- Time: Internal real-time clock
- Power Supply: 2 x D-cell batteries (Alkaline, NiCd or NiMH)
- Low-Battery Indicator: Flashing red LED
- Battery Life: 90 days using alkaline batteries
- Size: 175 x 135 x 55 mm
- Weight: 800 g (1.75 lb.) (including battery)
- Calibration Certificate: Included - *Annual re-calibration is recommended*
- NRPP Approved, device code 8235 (Canada and USA)
- NRSB Approved, device code 31820

Environmental Sensors

- Relative Humidity: 10% to 90%, +/- 2%
- Temperature: -20° to 40° C, +/- 0.3° C
- Barometric Pressure: 800 to 1200 mbar, 0.5% non-linearity

Radon Vision Software DATA SCREEN



AC Adapter

When using the AC Adapter, the Scout will continue operating from the D-cell batteries, without any data loss, if the line power is interrupted.

The Scout does not need line power. It will operate more than 90 days on fresh alkaline batteries.