

RADON VAPOR EXTRACTION & MONITOR SYSTEM PORTABLE

Model - VAP-X-Radon

FEATURES:

- Rn-CAM (ELECTRONICS AND RADON DETECTOR)
- RANGE: 0.1-2000 pCi/l (PicoCurries per Liter)
- USER SETTABLE UNITS - PicoCi/L or Bq/m³ etc.
- PROGRAMMABLE DIGITAL READOUT
- SENSITIVE FOR OCCUPATIONAL EXPOSURE
- DYNAMIC BACKGROUND COMPENSATION
- RECHARGEABLE BATTERY OR AC OPERATION
- DATA ARCHIVE & RETRIEVAL
- ALARMS: ALARM: AUDIO / VISUAL; HIGH-LEVEL; LOW FLOW
- COMPUTER INTERFACE RS-232 **OPTIONAL**: LAN OR USB PORT
- TOOLS FOR EXTRACTION OF RADON VAPOR IN SOIL ARE INCLUDED



**Rn-CAM
Radon Detector & Monitor**

APPLICATION:

- Pin-point leak source / location
- Map underground plume
- Locate edge of plume
- Locate problem areas

Advantages:

- Allows user to chase down source
- Optional Sr-90 detection or detection of other nuclides

Situation:

Vapor extraction from soil at a series of points facilitates tracking and mapping a radiation leak or a spreading plume. Existing holes or wells may be available but additional data is required from points at different depths. Model VAP-X-Radon is designed specially to help you accomplish this task. Details in the **System Description Chart**.

DESCRIPTION:

Technical Associates **VAP-X-Radon Extraction and Rn-CAM (electronics and detector)** is a sensitive, rugged, portable instrument for detection and measurement of Radon vapor in the soil. Its subtractive balanced chamber electrometer circuit decreases background effects to negligible levels and its deionized and filtered intake reduces to negligible levels spurious effects from dust and existing ionization in soil air. It is battery or AC operated.

Inlet and outlet hoses are provided. The **VAP-X-Radon** will measure airborne Radon in any form: water vapor, hydrogen gas or as volatile chemicals in concentrations as low as:

1 x 10⁻⁵ uCi/cc of air. (370 kBq/m³)

All instruments are calibrated at the factory. Calibration check may be performed in the field with a microCurie level Beta or Gamma source. Background chamber may be disconnected to check linearity of response on a Gamma calibration range. User friendly calibration controls are provided.

[See RADON IN AIR COMPARISON CHART](#)



TECHNICAL ASSOCIATES

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SYSTEM DESCRIPTION:

TASK	TOOL	MODEL	INCLUDED	
MAKE A NEW HOLE	Cone Penetrometer	CP-VAP	Optional	
	Coring Tool	CT-VAP	Optional	
	Auger-Drill	AD-VAP	Optional	
VAPOR COLLECTION	Push Tube: Hollow push tube with closed end and side hole air intakes	PUSH-1	YES	
	Vapor Build-Up Chamber	BAP-BUC	Optional	
	Pump	Air Pump	Built-In	YES
	Filter	Coarse filter in push tube, fine filter at detector inlet	Built-In	YES
		Particulate Filter	Built-In	YES
	Radon Measurement	Radon concentration meter	VAP-X-RADON	YES
	REJECTION FEATURES			
Gamma Background	Dual chamber design	Built-In	YES	
DATA TRANSMISSION				
A -- Serial	Serial RS-232	RS-232	Choose A, B and/or C when ordering	
B – Ethernet, wired	Ethernet, wired	EW	Choose A, B and/or C when ordering	
C – Ethernet, wireless	Ethernet, wireless	EW-LS	Choose A, B and/or C when ordering	
DATA STORAGE				
Hardware & Software	Palm data logger	P-LOG	Optional	
Software & Cable	Store data to laptop	WIN-W	Optional	
Internal Data Storage	Non-Volatile	Built-In	Optional	
DATA NETWORK				
	Universal, easy ORO Network For all types of sensors	ORONET, Overdrive	YES	



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User Manual Included SPECIFICATIONS:

- **Ranges:** 0.1 to 2,000 pCi/L
- **Detector:** Ion Chamber 300 cc radon internal chamber.
- **Air Pump:** 3 lpm
- **Count Time:** User Settable
- **Sensitivity:** 0.65 (User Settable)
- **Temperature:** -4°F to 122 °F (-20°C to 50°C)
- **Display:** Large, easy to read digital LED readout.
- **Front Panel Controls:** Off-On, Pump Off-On, Back Light.
- **Smoke, Dust and Ion Elimination:** Filter and deionizer reduce effects to negligible level.
- **Alarm:** Alarm Pre-Set Button, Alarm Reset Button – User Settable.
- **•Alarms:** Low Air Flow, Alarm High Level Alarm: Red Lamp and Audio Alarm.
- **•Controls:** Power, Pump On/Off, Battery Check, Set (calibration aid), Zero Adjust, Meter Programming (Two buttons).
- **Circuit:** Electrometer amplifies signal
- **Calibration:** Internal calibration with Radon gas.
- **Computer Port:** RS-232 serial port (standard); Optional: USB or LAN
- **Case:** Rugged, weatherproof.
- **❖ OPTIONAL:** Tamper Proof Control Panel

WEIGHT AND DIMENSIONS:

- **Portable System Excluding handle:** 7" W x 11.25" L x 7.5" D (17.7cm W x 28.6cm L x 19.0 cm)
- Front Panel:** 13" Long x 9" Wide.
- Battery:** 9V rechargeable sealed.
- Battery Life:** 20 hours between charges. Battery charger is built-in.
- Weight:** 8 lbs.



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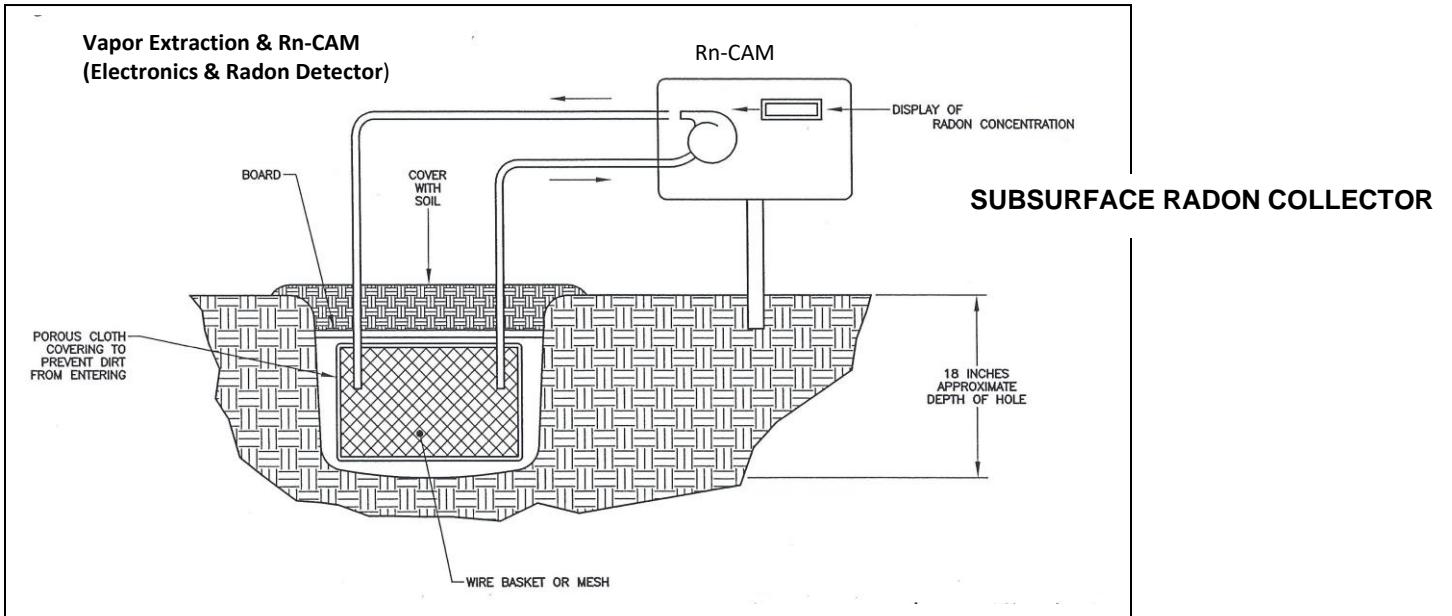
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