Vapor Extraction Tool and Radon Monitor 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 and 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

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/m^3)

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.

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DIVISIONS OF
US NUCLEAR CORP
OTCQB-UCLE

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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 and Software	Palm data logger	P-LOG	Optional
Software and 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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System Description *(continued)*

DATA STORAGE			
Hardware & Software	Palm data logger	P-LOG	Optional
Software & Cable	Store data to laptop	WIN-W	Optional
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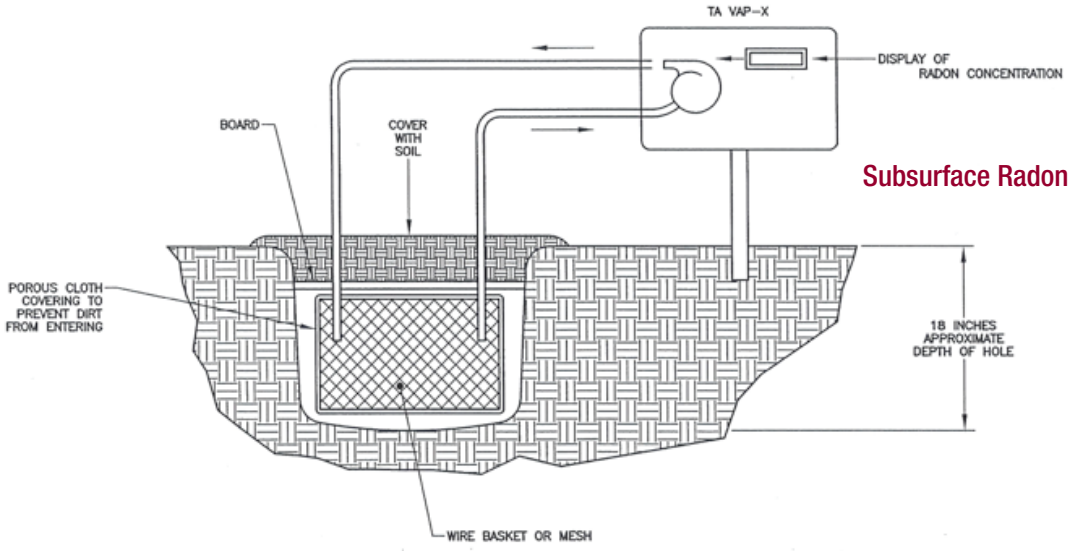
Specifications *User Manual Included*

- **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: -4ºF to 122ºF (-20ºC to 50ºC)
- 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" L x 9" W
Battery: 9V rechargeable sealed.
Battery Life: 20 hours between charges. Battery charger is built-in.
Weight: 8 lbs.



Subsurface Radon Collector

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