



# Vapor Extraction Tool and Radon Monitor Portable

## Model – VAP-X-Radon

### Features

- User Settable Units - PicoCi/ml or Bq/m<sub>3</sub> etc.
- Wide Range - Digital Accuracy
- Programmable Digital Readout
- Sensitive for Occupational Exposure
- Dynamic Background Compensation
- Battery Operation or AC Operation
- Built-in High Level Alarm
- Built-in Low Flow Alarm
- Built-in RS-232 Computer Interface

### 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** Monitor 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  $1 \times 10^{-5}$  uCi/cc of air. (370 KBq/m<sup>3</sup>)

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.



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303

PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@USNUCLEARCORP.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

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### System Description

TASK	TOOL	MODEL	INCLUDED
<b>MAKE A NEW HOLE</b>	Cone Penetrometer	CP-VAP	Optional
	Coring Tool	CT-VAP	Optional
	Auger-Drill	AD-VAP	Optional
<b>VAPOR COLLECTION</b>			
	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
<b>REJECTION FEATURES</b>			
Gamma Background	Dual chamber design	Built-In	YES
<b>DATA TRANSMISSION</b>			
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
<b>DATA STORAGE</b>			
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
<b>DATA NETWORK</b>			
	Universal, easy ORO Network For all types of sensors	ORONET, Overdrive	YES



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### System Description *(continued)*

<b>DATA STORAGE</b>			
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
<b>DATA NETWORK</b>			
	Universal, easy ORO Network For all types of sensors	ORONET, Overdrive	YES



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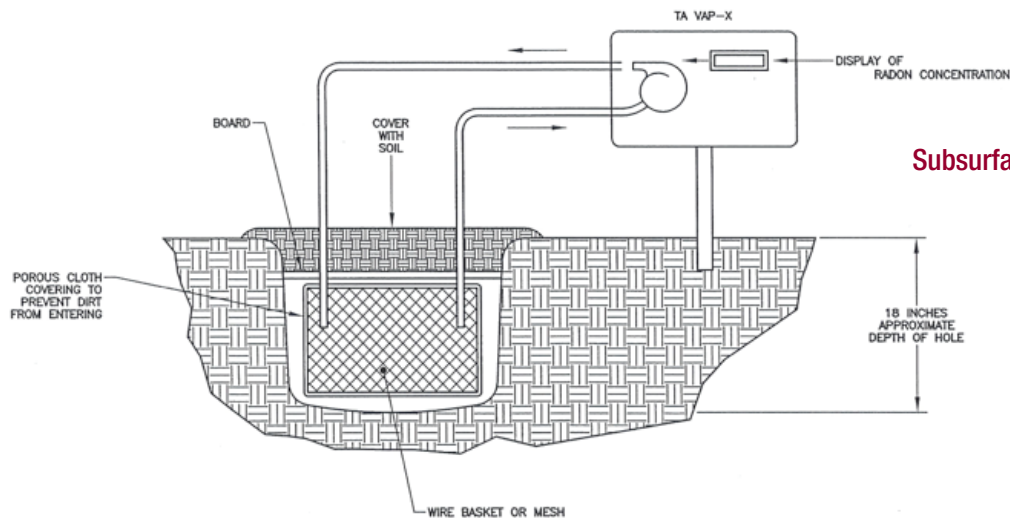
## Model – VAP-X-Radon

### User Manual Included Specifications

- **Ranges:** Compact, easy to read digital LCD readout.  
1 x 10<sup>-6</sup> to 1.0 uc/ml (37 KBq/ml to 3.7 x 10<sup>10</sup> Bq/ml.)
- **Background:** Essentially eliminated by subtractive balanced chambers.
- **Smoke, Dust and Ion Elimination:** Filter and deionizer reduce effects to negligible level.
- **Circuit:** Electrometer circuit amplifies net difference between 0.7 liter Radon internal chamber and a sealed background chamber of similar configuration.
- **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).
- **Calibration:** Can calibrate internally with Radon gas, or on a calibration course, or (at a single point) with optional beta or gamma source.
- **Computer Port:** RS-232 serial port is built in (fully addressable).
- **Portability:** Lightweight with carrying handle.
- **Case:** Deep drawn aluminum case, with handle and gasket lid, easy clean anodized finish.

### Weight and Dimensions:

- Instrument Case (inc. handle):** 9" W x 13" L x 9" Tall.
- Front Panel:** 13" L x 9" W.
- Battery:** 9V rechargeable sealed.
- Battery Life:** 20 hours between charges. Battery charger is built-in.
- Weight:** 12 lbs.
- Shipping Weight:** 15 lbs. (Including batteries and charger)



Subsurface Radon Collector



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