

# VAPOR EXTRACTION RADON MONITOR

## 抽汽式氡监测器

Model # VAP-X- Radon

### FEATURES:特点

- EXTRACTS SOIL AIR.抽取土壤空气
- MEASURES RADON-THORON IN THE FIELD  
测量现场氡-钍
- FROM EXISTING WELLS OR NEW HOLES  
测量野外已有井或新凿孔中氡-钍
- PUSH TUBE AND BASIC COLLECTION  
CHAMBER INCLUDED  
包括顶管和基本集气室
- USER SETTABLE UNITS - PicoCi/ml or Bq/m<sup>3</sup>  
用户可设定单位- PicoCi/ml or Bq/m<sup>3</sup>
- WIDE RANGE - DIGITAL ACCURACY  
宽量程-数字精度
- PROGRAMMABLE DIGITAL READOUT  
可编程数字读数显示
- DYNAMIC BACKGROUND COMPENSATION  
动态本底补偿
- BATTERY OPERATION OR AC OPERATION  
电池或 AC 线操作
- BUILT-IN HIGH LEVEL ALARM  
内置高值报警
- BUILT-IN RS-232 COMPUTER INTERFACE  
内置 RS-232 电脑接口
- DATA LOGGING, NETWORKING AND PLUME  
MAPPING SOFTWARE-OPTIONAL  
数据录入, 网络和绘制羽状图软件-可选购



**DESCRIPTION:** Technical Associates VAP-X-Radon Tritium Monitor is a sensitive, rugged, portable instrument for detection and measurement of airborne VADO-zone/soil air. 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 smoke, dust and existing ionization in the air. It has AC line and battery operation and it may be left on permanently without fear of "running out of battery". Inlet and outlet hoses and basic underground soil air collector are included. The VAP-X-Radon will measure airborne tritium as free hydrogen or as volatile chemicals in concentrations as low as  $1 \times 10^{-7}$  Ci/cc of air. (3.7 KBq/m<sup>3</sup>)

描述: TA-VAP-X-Radon 氡监测器是一款灵敏, 耐用, 便携仪器用于检测和测量气溶胶土壤气体。其负载平衡室静电计电路将本底影响减少到忽略的水平, 其去离子过滤进气将来自烟尘和空气中现有离子的寄生效应减少到可以忽略的水平。AC 线和电池操作而不用担心耗尽电池。包括出/入软管和基本土壤气体收集器, VAP-X-Radon 将气溶胶氡作为自由氢或挥发性化学物质来测量, 空气中浓度低到  $1 \times 10^{-7}$  Ci/cc (3.7 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.

所有仪器工厂校准, 使用微居限值的  $\beta$  -  $\gamma$  源可现场校准检查, 本底室可能要断开以检查  $\gamma$  校准场地的线性响应。提供用户友好校准控制

TA

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#### Uses:

#### 使用:

- Pin-point the source of a leak 锁定泄漏源
- Map your underground plume 画出地下羽状图
- Locate edge of plume 锁定羽状图边缘
- Locate problem areas 锁定问题区域

#### Advantages:优点

- Allows user to chase down contamination source  
允许用户追踪污染源
- Optional Sr-90 detection or detection for other nuclides  
可选购检测 Sr-90 或其它核素检测

#### Situation:

Sometimes you need to extract vapor from the soil at a series of points in order to track down a radiation leak or map a spreading plume. There may be some useful existing holes or wells but you need data from additional points at different depths. Model VAP-X-Radon is designed specially to help you accomplish this task.

有时你需要从一系列地点中抽取土壤中气体，以便追踪辐射泄漏或画出羽状图，可以利用现存的洞孔或井，但你需要从不同深度的点收集数据。型号 VAP-X-Radon 特别设计帮你完成这一任务。



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