

RAPID RADON MONITOR

快速氡监测器

Model ~ FR-5-FS

FEATURES: 特点

- SYSTEM GIVES QUICK MEASUREMENT
系统快速测量
- 1 PICOCURIE PER LITER IN 3 MINUTE SAMPLING
3 分钟内测量到 1pCi/L
- INCREASED SENSITIVITY WITH LONGER SAMPLING
延长采样增加灵敏度
- PORTABLE (AC OPERATED)
便携式 (AC 电源)
- REPLACEMENT CARTRIDGES WIDELY AVAILABLE
更换过滤盒通用



Model – FR-P11: Collection Unit with Quiet Pump & Filter Holder

DESCRIPTION: 描述

Model – FR-P11 Collection Unit 收集部分 FR-P11

- Regulated Air Sampler complete with Quiet Pump, flow meter and filter/cartridge holder.
调节空气采样器，静音泵，流量计，过滤托
- Quiet air pump capacity is 227 liters/minute under constant surveillance by flow meter.
静音泵容量 227L/min, 流量计控制
- 10 cartridges included.
包括 10 个过滤盒

Model – PRS-7 Electronics 电子学部分 PRS-7

- **SENSITIVITY:** 1 pico Ci/liter with 3 minute air collection and 3 min count after 1 hour wait
灵敏度: 3 分钟采样达到 1pCi/L
- **DAILY VARIATIONS:** Radon concentration varies dramatically during each day. To measure daily average value, leave pump operating in place for 24 hours, then wait at least one hour and make measurement. Quiet pump will not disturb most sleepers in adjacent rooms.
每日浓度变化: 氡浓度一天中变化很大, 要测量每日平均值, 泵在原地运行 24 小时, 然后等 1 小时后进行测量, 静音泵不会影响到隔壁房间睡眠者。

REUSE OF CARTRIDGE: 重复使用过滤盒



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- Cartridges may be reused if the count of the cartridge shows zero counts above background.
如果过滤盒显示本底以上零计数，可重复使用
- The cartridge will rid itself of Radon in approximately 2 weeks with no action, or can be rid completely of Radon in 1 hour by heating in oven for 1 hour at 250 degrees F.
放置 2 周后过滤盒氡可自行清除，或者将其放进 250F 烤箱里加热 1 小时氡可以被清除
- Additional charcoal cartridges are available
可选备用活性炭



PRS-7 ELECTRONICS

APPLICATION: 应用

- Take the pump and filter holder to the area to be tested
将泵和过滤托放到需要测量地方
- Pull air through the filter for a period of at least 3 minutes.
取样至少 3 分钟
- A 3 minute count based on a 3 minute sample achieves 1 pico Ci per liter.
3 分钟采样计数可达 1 皮居每升
- A ten minute count based on a ten minute sample achieves a 0.1 pico Ci/liter sensitivity.
10 分钟采样计数可达 0.1pCi/L
- A waiting period of approximately one hour after taking the sample and before counting is required to maximize the sensitivity.
取样后等 1 小时可最大化灵敏度
- Longer or shorter waiting times (from ten minutes to seven days) will still allow detection and accurate measurement of Radon in air but at lesser sensitivity than above.
更长或更短的时间仍旧可以探测空气中氡并保证精度但不如以上提到的时间精度高。（10 分钟到几天不等的等待时间）



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SPECIFICATIONS: 参数

Model: 型号	FR-PII
Portability 便携式	Portable便携式
DETECTOR 探测器	PGS-3I
Size/Material 尺寸/材料	1" x 0.8" NaI(Tl)
Window 窗	Aluminum 5mil 铝
Detects 探测	Low + Middle Gamma. 中低伽马
Pump 泵	227 liters/minute
Filter 过滤器	Charcoal Cartridge 2.5"dia.
WEIGHTS: 重量	
Electronics 电子学	5 lbs with Batteries
Detector + Filter 探头+过滤	4 lbs
Pump 泵	20 lbs
Shielding 屏蔽	None
Electronics 电子学	PRS-7

ELECTRONICS:

电子学

Electronics:

电子学:

PRS-7 AC & Rechargeable Batteries

PRS-7 AC或可充电电池

Digital Readout:

数字读数器:

6 digit LCD Rate, 8 digit integrate.

6位数LCD计数率, 8位数总计数

Time Base:

时基:

Crystal controlled 1-10,000 seconds, user settable.

晶体控制1-10,000秒, 用户设定

Display Modes:

显示模式:

Rate, Integrate.

计数率, 总计数

Range:

量程:

1×10^{-13} to $1 \times 10^{-7} \mu\text{Ci/cc}$ (or Ci/m^3) (Depends on count time)

Audio Alarm:

声音报警:

Piezo electric sounder with mute switch.

压电音带静音按钮



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Single Channel:

3 Switch Selectable Windows: 2 preset (resettable) window positions plus one "variable".

Analyzer/Discriminator: 10-turn, 1000 division pot for each threshold.
10-turn, 1000 division pot for window width.

单量程: 2个预设窗加一个“可变窗”，每个阈值和窗宽10转1000分隔电位计

SYSTEM:

系统

Air Pump: High Flow Pump and Filter holder.

气泵: 大流量泵和过滤托组成

Air Flow Rate: 227 liters/min

流量:

Filters: 10 pack charcoal filter papers

过滤器: 10包活性炭过滤纸

System Power: 115 V 50-60 Hz 2A (**Optional:** 230 V 50-60 Hz).

系统电源:

Case: Electronics housed in enameled aluminum housing; handle included.

外壳: 烤瓷铝电子学外箱，把手包括在内

WEIGHT & DIMENSIONS:

重量&尺寸

Dimensions: 17"W x 13"H x 13 1/2"D Excluding pump and detector assembly.

尺寸:

Detector Assembly: 5"W x 10"H x 6"D.

探头组件:

Pump Assembly: 11"W x 13"H x 11"D.

泵组件:

Weight: See Following Chart

重量:

OPTIONAL: 可选

Shielding: Detector shielding. 探头屏蔽

Alarm: Settable 2000 Hz beeper and red flasher. Interface - RS-232 (Model MCC-23).

报警: 可设定蜂鸣音和红灯，接口RS-232

Serial Printer.

Tripod for Breathing Zone Monitoring

打印机，呼吸区监测用三脚架



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