

# RAPID RADON MONITOR

Model ~ FR-5-FS

## FEATURES:

- SYSTEM GIVES QUICK MEASUREMENT
- 1 PICO CURIE PER LITER IN 3 MINUTE SAMPLING
- INCREASED SENSITIVITY WITH LONGER SAMPLING
- PORTABLE (AC OPERATED)
- REPLACEMENT CARTRIDGES WIDELY AVAILABLE



## DESCRIPTION:

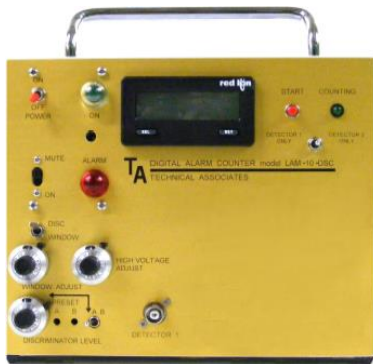
**Model – FR-P11: Collection Unit with Quiet Pump & Filter Holder**

### Model – FR-P11 Collection Unit

- Regulated Air Sampler complete with Quiet Pump, flow meter and filter/cartridge holder.
- Quiet air pump capacity is 227 liters/minute under constant surveillance by flow meter.
- 10 cartridges included.
- **Model – PRS-7 Electronics**
- **SENSITIVITY:** 1 pico Ci/liter with 3 minute air collection and 3 min count after 1 hour wait
- **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.

## REUSE OF CARTRIDGE:

- Cartridges may be reused if the count of the cartridge shows zero counts above background.
- 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.
- Additional charcoal cartridges are available



PRS-7 ELECTRONICS



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Divisions of



US NUCLEAR CORP

**OVERHOFF TECHNOLOGY**

7051 Eton Ave., Canoga Park, CA 91303

818-883-7043 (Phone) 818-883-6103 (Fax)

[tagold@nwc.net](mailto:tagold@nwc.net)

[WWW.TECH-ASSOCIATES.COM](http://WWW.TECH-ASSOCIATES.COM)

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## APPLICATION:

- Take the pump and filter holder to the area to be tested
- Pull air through the filter for a period of at least 3 minutes.
- A 3 minute count based on a 3 minute sample achieves 1 pico Ci per liter.
- A ten minute count based on a ten minute sample achieves a 0.1 pico Ci/liter sensitivity.
- A waiting period of approximately one hour after taking the sample and before counting is required to maximize the sensitivity.
- 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.

## SPECIFICATIONS:

Model:	FR-P11
Portability	Portable
DETECTOR	PGS-3I
Size/Material	1" x 0.8" NaI(Tl)
Window	Aluminum 5mil
Detects	Low + Middle Gamma.
Pump	227 liters/minute
Filter	Charcoal Cartridge 2.5" dia.
<b>WEIGHTS:</b>	
Electronics	5 lbs with Batteries
Detector + Filter	4 lbs
Pump	20 lbs
Shielding	None
Electronics	PRS-7



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## ELECTRONICS:

<b>Electronics:</b>	PRS-7 AC & Rechargeable Batteries
<b>Digital Readout:</b>	6 digit LCD Rate, 8 digit integrate.
<b>Time Base:</b>	Crystal controlled 1-10,000 seconds, user settable.
<b>Display Modes:</b>	Rate, Integrate.
<b>Range:</b>	$1 \times 10^{-13}$ to $1 \times 10^{-7}$ $\mu$ Ci/cc (or Ci/m <sup>3</sup> ) (Depends on count time)
<b>Audio Alarm:</b>	Piezo electric sounder with mute switch.
<b>Single Channel:</b>	
<b>3 Switch Selectable Windows:</b>	2 preset (resettable) window positions plus one "variable".
<b>Analyzer/Discriminator:</b>	10-turn, 1000 division pot for each threshold. 10-turn, 1000 division pot for window width.

## SYSTEM:

<b>Air Pump:</b>	High Flow Pump and Filter holder.
<b>Air Flow Rate:</b>	227 liters/min
<b>Filters:</b>	10 pack charcoal filter papers
<b>System Power:</b>	115 V 50-60 Hz 2A ( <b>Optional:</b> 230 V 50-60 Hz).
<b>Case:</b>	Electronics housed in enameled aluminum housing; handle included.

## WEIGHT & DIMENSIONS:

<b>Dimensions:</b>	17"W x 13"H x 13 1/2"D Excluding pump and detector assembly.
<b>Detector Assembly:</b>	5"W x 10"H x 6"D.
<b>Pump Assembly:</b>	11"W x 13"H x 11"D.
<b>Weight:</b>	See Following Chart

## OPTIONAL:

Shielding:	Detector shielding.
Alarm:	Settable 2000 Hz beeper and red flasher. Interface - RS-232 (Model MCC-23).
Serial Printer:	
Tripod for Breathing Zone Monitoring	



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