RAPID RADON MONITOR
Model ~ FR-5-FS

FEATURES:

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

DESCRIPTION:

Model – FR-PII Collection Unit

• Regulated Air Sampler complete with Quite 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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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:

<table>
<thead>
<tr>
<th>Model:</th>
<th>FR-PII</th>
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</thead>
<tbody>
<tr>
<td>Portability</td>
<td>Portable</td>
</tr>
<tr>
<td>DETECTOR</td>
<td>PGS-3I</td>
</tr>
<tr>
<td>Size/Material</td>
<td>1&quot; x 0.8&quot; NaI(Tl)</td>
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<tr>
<td>Window</td>
<td>Aluminum 5mil</td>
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<tr>
<td>Detects</td>
<td>Low + Middle Gamma.</td>
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<tr>
<td>Pump</td>
<td>227 liters/minute</td>
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<tr>
<td>Filter</td>
<td>Charcoal Cartridge 2.5&quot;dia.</td>
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WEIGHTS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Electronics</td>
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<tr>
<td>Detector + Filter</td>
<td>4 lbs</td>
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<tr>
<td>Pump</td>
<td>20 lbs</td>
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<tr>
<td>Shielding</td>
<td>None</td>
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<tr>
<td>Electronics</td>
<td>PRS-7</td>
</tr>
</tbody>
</table>
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ELECTRONICS:
- Electronics: PRS-7 AC & Rechargeable Batteries
- Digital-Readout: 6 digit LCD Rate, 8 digit integrate.
- Time Base: Crystal controlled 1-10,000 seconds, user settable.
- Display Modes: Rate, Integrate.
- Range: $1 \times 10^{-13}$ to $1 \times 10^{-7} \, \mu \text{Ci/cc}$ (or $\text{Ci/m}^3$) (Depends on count time)
- Audio Alarm: Piezo electric sounder with mute switch.
- 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.

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

WEIGHT & DIMENSIONS:
- Dimensions: 17”W x 13”H x 13 1/2”D Excluding pump and detector assembly.
- Detector Assembly: 5”W x 10”H x 6”D.
- Pump Assembly: 11”W x 13”H x 11”D.
- Weight: See Following Chart

OPTIONAL:
- Shielding: Detector shielding.
- Serial Printer.
- Tripod for Breathing Zone Monitoring