



FR-42
DIGITAL DISPLAY
GM TUBE REPLACES TLD

Rapid Radon Monitors TLD and GM

Model Series - FR Model FR-32 and Model FR-42

Features

- Sensitive 0.03 pCi/liter/week
- Unattended Operation Up to 30 Days
- Long Life Battery
- Meets NRC ALARA Recommendations
- **FR-32** – TLDs For Gamma Background Measurement
- **FR-32** – No Electronics – Send TLD to Lab for Analysis
- **FR-42** – Internal Scaler Type Digital Display
- **FR-42** – Uses a GM Tube Instead of TLD

Application

Model Series FR is designed primarily for field, mill, and mine use, and are excellent for measuring Radon in basements and well-sealed buildings.

Performs Radon check of air for establishment of background and baseline Radon records or to determine and record operating levels for personnel safety and/or ALARA needs.

Model Series FR is primarily used for establishing baseline Radon levels and for assuring compliance with the Nuclear Regulatory Commission ALARA guides

Description

Model Series FR. Radon diffuses into a counting chamber where the daughter recoils are concentrated by electrostatic attraction and deposited adjacent to a TLD or GM tube. FR-32 uses the TLD and FR-42 uses a GM tube. TLD needs to be sent to the lab for analysis readout.

- A one-week exposure gives a lower limit of detection of 0.03 pCi/l of Radon.
- Longer exposure gives greater sensitivity.
- No pump is necessary.
- Maintenance service:
 - » Replace the battery per schedule recommended in the user's manual.
 - » Replace the indicating drying agent as needed (usually 2-8 weeks, depending on weather).

The **FR-42** may be read in a few minutes.

It is the same instrument as the **FR-32** but has a miniature Thin-Window GM tube and an internal scaler type display.



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