

F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

Continuous Portable Radiation Air Monitor F&J Model RMDF-60L

NOTABLE FEATURES:

- Activity Displayed as DPM or Bq
- Gross Radioactivity Concentration displayed as $\mu\text{Ci}/\text{cc}$ or Bq/m^3
- Background subtraction
- Flowrate corrected to reference T and P
- Automatic Flow Control
- High efficiency low voltage GM detector
- NIST traceable calibration
- Long battery life
- Lightweight: ~ 17 lbs. (7.7 kgs)
- Audible alarm
- Visual alarm



GENERAL DESCRIPTION:

Model RMDF-60L is a portable lightweight continuous radiation air monitor that measures near real-time gross radioactivity levels on a 47 mm glass fiber filter paper. The system provides audible and visible alarms based upon an operator selectable activity or concentration value.

Gross beta-gamma radioactivity is measured as a Cs-137 equivalent value. Other specific isotopes are operator selectable.

Metric or English units are available as a factory installed selection.

The portable lightweight CAM is ideal for homeland security applications and for commercial nuclear power plant emergency kits.

Typical detection sensitivity is $1.4\text{E}-9 \mu\text{Ci}/\text{cc}$ based on the Cs-137 isotope and sampling for ten minutes. Longer sample collection times result in better detection sensitivity. The typical flowrate range is 30 – 60 LPM depending upon the airflow resistance of the filter media.

Typical flow range 30-60 SLPM (1.1-2.1 SCFM).

RMDF-60L Specifications

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate:

30 - 60 LPM typical w/FP47M glass fiber filter media

Power Source:

Internal –

Lithium ion; 14.8VDC/15Ah Battery Pack

External –

Line Power; 110VAC or 250VAC

Alligator clip jumper cables – 12-15VDC

Battery Charging System:

Internal System which charges from line Power.

Operating Time on Batteries: ~4 hours

Current Draw: 4 A maximum

Filter Holder Fitting:

3/8 FNPT quick disconnect

Handle: Durable metal

Weight: ~17 lbs. (7.7 kg)

Dimensions: 8"×9"×12" (20 × 23 × 30 cm)

Average dB: 72.0

Display: Bright LED (6 character; 1.2 cm H)

Elapsed Time: hhh:mm up to 168 hours

Flow Control:

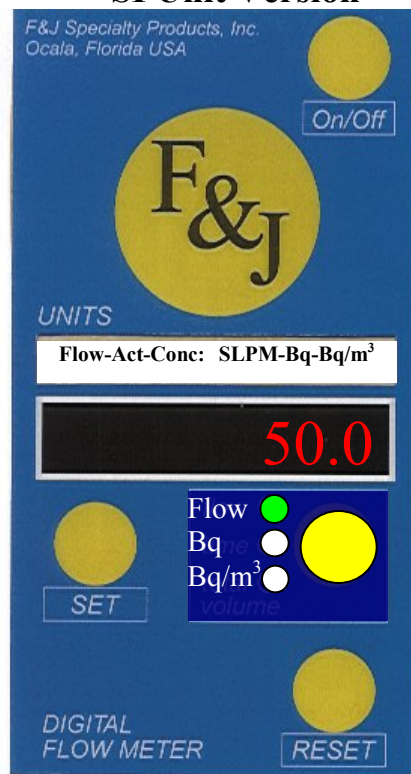
Adjustable from keypad between 30 - 60 LPM

Flow Accuracy: ± 4.0% of Full Scale

OPTIONS:

- Data Storage Device (P/N: 232FCDS)
- 2+ GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

RMDF-60L Keypad/Display SI Unit Version



RMDF-60L Keypad/Display North American Version

