

F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

Continuous Portable Radiation Air Monitor F&J Model RMDF-30L

NOTABLE FEATURES:

- Activity Displayed as DPM or Bq
- Gross Radioactivity Concentration displayed as $\mu\text{Ci/cc}$ 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: <10 lbs.
- Audible alarm
- Visual alarm



GENERAL DESCRIPTION:

Model RMDF-30L 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 $1.4\text{E-}9 \mu\text{Ci/cc}$ 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 10 – 30 LPM depending upon the airflow resistance of the filter media.

RMDF-30L Specifications

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate: 25 - 30 LPM typical

Power Source:

Internal –

12VDC Battery Pack NiMH; 12VDC/4.5Ah

External –

Line Power; 110VAC or 250VAC

Automobile Cigarette Lighter 12VDC

Battery Charging System:

Internal System that charges from line power.

Operating Time on Batteries: ~ 6 hours (NiMH)

Current Draw: 0.6 A maximum

Filter Holder: Front loading 47 mm particulate

Handle: Durable metal

Weight: 9.6 lbs. (3.1 kg)

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

Average dB: 56.8

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

Elapsed Time: hhh:mm up to 168 hours

Flow Control:

Adjustable from keypad between 10 - 30 LPM

Flow Accuracy: ±4.0% of Full Scale

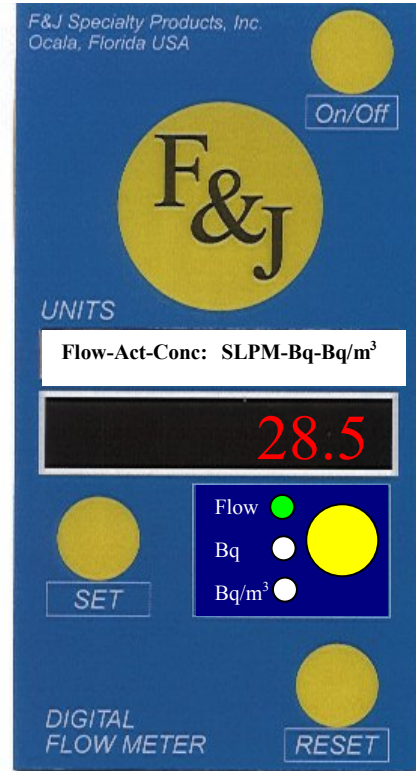
Audible Alarm: Piezo siren 108 dB output (30 cm)

Visual Alarm: Long life xenon tube strobe light; waterproof; flash rate 120/min.

OPTIONS:

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

RMDF-30L Keypad/Display SI Unit Version



RMDF-30L Keypad/Display North American Version

