

F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

Continuous Air Monitor (Beta CAM) F&J Model RMDF-60L-BL-AC

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
- Lightweight: ~ 20 lbs. (~9 kgs)
- Audible alarm
- Visual alarm
- Dual diaphragm pump
- Brushless motor



GENERAL DESCRIPTION:

Model RMDF-60L-BL-AC is a lightweight continuous beta radiation air monitor that measures near real-time gross beta radioactivity levels on a 47 mm filter paper. The system provides audible and visible alarms based upon an operator selectable activity or concentration value. A brushless motor powers a dual diaphragm high efficiency pump.

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 sampling of beta emitters.

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 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-BL-AC Specifications

Pump Type: Dual diaphragm high efficiency

Motor Type: Brushless 24VDC

Maximum Flowrate:
30 - 60 LPM typical with FP47M GF media

Power Source:
110 VAC Line Power

Current Draw: 4 A maximum

Handle: Durable metal

Weight: ~20 lbs. (9 kg)

Dimensions: 11"×11"×18" (28 × 28 × 46 cm)

Average dB: 67.5

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

Elapsed Time: hhh:mm up to 168 hours

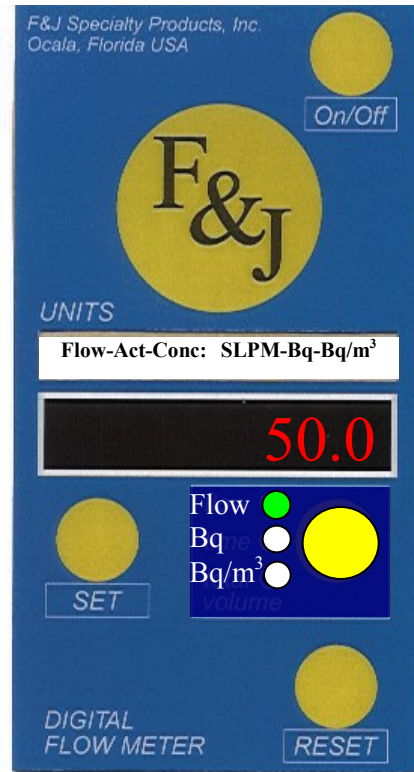
Flow Control:
Adjustable from keypad between 30 - 60 LPM

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-BL-AC Keypad/Display SI Unit Version



RMDF-60L-BL-AC Keypad/Display North American Version

