

Beta – Gamma Particulate Air Monitor

Model Series FM-9-BG

Models: FM-9-BG and Model FM-9-BG-C

Specifications

- Sensitivity:** Limit of sensitivity at 120 liters/minute air flow rate is 4×10^{-13} $\mu\text{Ci/cc}$ integrated over an 8 hour period, or 8×10^{-14} $\mu\text{Ci/cc}$ for a 40 hour period.
This corresponds to 2×10^{-10} $\mu\text{Ci/ml}$ minute exposure equal to 0.6% of the California Safety Code Title 17 and USNRC Title 10 limit for 40 hour weekly exposure to most hazardous Beta and/or Gamma emitter in absence of Ac 227.
- Detector:** 2" diameter thin window GM detector Model T-1190
Sensitivity to ALL Beta-Gamma positron emitters including: Mo-99, Cs-137, K-40.

Electronic Modules Include

- **MV-5.12.24:** Power Supply
 - **MAC-9:** Air Control Timer; Low Flow Alarm Flowmeter
 - **FM-9:** On Board computer with color monitor
 - **M μ P:** Imbedded processor
- Range:** 1×10^{-13} to 1×10^{-7} $\mu\text{Ci/cc}$ or (Ci/m^3) Depends on count timer and flow rate.
- Alarm:** Settable. 2000 Hz beeper and red flasher.
- Response Time:** Settable 1 second to 40 hours.
- Readout:** Color 7" LCD Monitor shows status, alarms, concentration and total radiation values.
- Flow Rate:** Regulated. Normally set at 70 liters/min.
- Power:** 115V, 50-60 Hz (230 V **optional**).
- Shielding:** 1" lead about sample and detector.
- Pump:** Muffler and trap included. 115V 60Hz 2A. (230 V 50-60 Hz **optional**).
- Filters:** Includes box of 100 glass fiber filters – 2" or 55mm.
Can also use membrane, paper or glass fiber filters.
- Case:** Electronics housed in enameled aluminum case; carrying handles **optional**.

Weight and Dimensions Excluding pump and detector assembly:

- Case:** 20" W x 13" H x 18" D.
- Detector Assembly:** 5" W x 10" H x 6" D.
- Pump Assembly:** 8" W x 8" H x 14" D.
- Shipping Weight:** 84 lbs.

- Accessories:** **Filter:** Additional free flowing silver activated charcoal disposable cartridge.



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