

Beta – Gamma Particulate Air Monitor

Model Series; FM-9-ABGN

Model FM-9-ABGN and Model FM-9-ABGN-C

Specifications

Sensitivity: Limit of sensitivity at 120 liters/minute air flow rate is 4×10^{-13} $\mu\text{Ci}/\text{cc}$ integrated over an 8 hour period, or 8×10^{-14} $\mu\text{Ci}/\text{cc}$ for a 40 hour period.

This corresponds to 2×10^{-10} $\mu\text{Ci}/\text{ml}$ 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} $\mu\text{Ci}/\text{cc}$ or (Ci/m^3) depends on count time and flow rate.

Alarm: Settable 2000 Hz beeper and red flasher.

Response Time: Settable 1 second to 40 hours.

Readout: 7" Color LCD monitor built-in for digital and graphic user data display.

Flow Rate: Normally set at 70 liters/min.

Mass Flow Meter: Real-Time air flow rate data feeds directly into data analyzer software and embedded processor for highest concentration accuracy.

Power: 115V, 50-60 Hz (**Optional** 230 V).

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:

Dimensions: Electronics: Excluding pump and detector assembly: 20" W x 13" H x 18" D.

Detector Assembly: 5" W x 10" H x 6" D.

Cyclone Separator: 1 ounce

Pump Assembly: 8" W x 8" H x 14" D.

Shipping Weight: 84 lbs.



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