

Alpha / Beta and Beryllium Aerosol Monitor

Model: FM-9-AB2 | Model: FM-9-AB2-Be

Specifications


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| Alpha Sensitivity: | 1KBq/m ³ Alpha (3×10^{-8} Ci/m ³) = (3×10^{-8} µCi/cc) is easily measured in one hour at 70 lpm flow rate. |
| Beta Sensitivity: | Limit of sensitivity (as Cs-137 at 70 liters/minute air flow rate) is 4×10^{-13} µCi/cc integrated over an 8 hour period, or 10^{-4} Bq/m ³ for a 40 hour period. |
| Note: | This corresponds to 2×10^{-10} µCi/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. |
| Alpha Detector: | 2" dia. probe, thin Zn(S) Alpha scintillation phosphor, Model PAS-8 . |
| Beta Detector: | 2" dia. T-1190 GM pancake detector with Beta window to eliminate Alpha cross talk, or with 2mg/cm window to allow C ¹⁴ and S ³⁵ detection. |
| 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 |
| MµP: | Imbedded processor |
| Readout: | 7" Color LCD monitor built-in for digital and graphic user data display. |
| Power: | 110-220 AC (Optional 230 AC) |
| DISPLAY: | LCD color monitor Alpha, Numeric 3-4 Lines of simultaneous information Multiple color status indicators Decimal places (User Settable) Raw counts and air borne concentration (User Settable engineering units) Fast response on all count rates User friendly Keypad and mouse for set up |
| RANGE: | |
| Beta: | 1×10^{-13} to 1×10^{-7} µCi/cc or (Ci/m ³). |
| Alpha: | 1cpm to 100,000cpm, 3×10 to 3×10 Ci on filter. |
| Activated Beryllium: | 10^{-4} Bq/m ³ |
| MDA: | 95% |
| Alarm: | Settable. 2000 Hz beeper and red flasher. |
| Response Time: | Settable 1 second to 40 hours. |
| Flow Rate: | 10-100 liters/min. (User Settable) |
| Mass Flow Meter: | Real-Time air flow rate data feeds directly into data analyzer software and embedded processor for highest concentration accuracy. |



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