

Pet, Iodine, or Tc-99m DTPA Air Monitor

Gas and Particulate

Model: FM-9-ABNI

Description

The **FM-9-ABNI** uses a standard charcoal filter in TA's unique quick change, no leak holder to trap any airborne Radio Iodine. The filter is under constant surveillance via a thin window scintillation detector. Air is drawn by a regulated pump through a three-foot inlet hose and exhausted via a flow meter through another three-foot hose.

These may be extended to allow monitoring of hoods, glove boxes, stacks, etc. Time is recorded by an odometer type timer wired into the pump circuit.

The unit is completely self-contained and portable. Complete with 10 filter cartridges.

PUMP: 56 liter/minute		PUMP: 120 liter/minute	
Time	Sensitivity	Time	Sensitivity
10 sec	$5 \times 10^{-3} \mu\text{Ci/l}$	10 sec	$2 \times 10^{-3} \mu\text{Ci/l}$
2 min	$1 \times 10^{-4} \mu\text{Ci/l}$	2 min	$0.5 \times 10^{-5} \mu\text{Ci/l}$
60 min	$8 \times 10^{-7} \mu\text{Ci/l}$	60 min	$3 \times 10^{-7} \mu\text{Ci/l}$
8 hr	$8 \times 10^{-8} \mu\text{Ci/l}$	8 hr	$4 \times 10^{-8} \mu\text{Ci/l}$
1 Week	$8 \times 10^{-13} \mu\text{Ci/l}$	1 Week	$8 \times 10^{-11} \mu\text{Ci/l}$

This corresponds to $2 \times 10^{-10} \mu\text{Ci/ml}$ minute exposure which is 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:

Model PGS-3 for sensitivity to ALL Iodines and Positron emitters.

2" diameter probe with thin window, 1" x 1" thick crystal, scintillation detector.

Electronic Modules Include:

Power Supply and MV-5.12.24.

MAC-9: Air Control Timer; Low Flow Alarm Flowmeter

MGA-5: Single Channel Analyzer-User settable for specific energy of interest

FM-9: On-Board computer with color monitor

Single Screen Display Dashboard: Current Data and System Status:

Readout: 7" Color LCD monitor built-in user data display.

- Concentration
- Total Activity on Filter
User Settable Units: (cps, Bq, μCi , Bq/m³, $\mu\text{Ci/l}$, DAC, DAC-hr etc.)
- Raw Counts
- Flow Status
- Alarms – Audio and Visual on screen red light alert - User Settable.
- System Status; System Error
- Alert Change Filter Due to High Activity Build Up – Range Typically Set at 500 kBq or 13.5 μCi
User Settable.
- Air Flow Rate Accessible via Display



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