

# PET OR IODINE AIR MONITOR GAS & PARTICULATE

Model - FM-9-ABNI

## FEATURES:

- AIRBORNE CONCENTRATION
- INTEGRATED EXPOSURE
- HIGH SENSITIVE
- REAL TIME ALARM
- LINE OPERATED
- STANDARD FM-7/9 MODULES
- CAN DRAW AIR FROM HOOD, DUCT, ETC.
- QUICK CHANGE FILTER CARTRIDGE
- REGULATED AIR FLOW
- DATA LOGGER - BUILT-IN
- DATA UPDATES EVERY FEW SECONDS – OPERATOR SETTABLE
- COMPUTER INTERFACE – USB OR ETHERNET
- TRANSPORTABLE / CART MOUNTED UNIT AVAILABLE

FM-9-ABNI



Detector PGS-31

## APPLICATION:

The **FM-9- ABNI** Air Monitors assure safety against airborne radioactivity contamination by means of constant check with alarm and record capability. It provides integrated exposure information and can provide hard copy via external printer or computer.

It is a complete system and may be expanded per need with modules of the **FM-9** series. The **FM-9- ABNI** is **more sensitive and versatile version** of the broadly used long time standard, the **FM-5-ABNI**. The **FM-9- ABNI** may be used to monitor stack effluent down to EPA levels as well as hoods, glove box or workplace air.

## 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.



**TECHNICAL ASSOCIATES**  
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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	$4 \times 10^{-12} \mu\text{Ci/l}$		8 hr	$4 \times 10^{-13} \mu\text{Ci/l}$
40 hr	$8 \times 10^{-13} \mu\text{Ci/l}$		40 hr	$8 \times 10^{-14} \mu\text{Ci/l}$

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-3I** for sensitivity to **ALL** Iodines and Positron emitters.

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

## ELECTRONIC MODULES INCLUDE:

**Power Supply and MV-5.12.24.**

**MAC-5:** Air Control Timer; Low Flow Alarm Flowmeter

**MGA-5:** Single Channel Analyzer

**MCT:** On-Board computer with color monitor

## WEIGHT AND DIMENSIONS:

ITEM	WEIGHT	DIMENSION
<b>Electronics</b>	20 lbs	21W x 16D x 11H
<b>Pump</b>	8 lbs	6W x 6D x 8H
<b>Detector Shield with Detector</b>	30 lbs	13L x 6W x 6H
<b>Shipping Weight</b>	65 lbs	



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