

PET, IODINE, or Tc-99m DTPA AIR MONITOR GAS & PARTICULATE

- PET/碘空气监测器Tc-99m DTPA
气体/粒子
Model - FM-9-ABNI

FEATURES: 特点

- DETECTS POSITRON, IODINE, Tc-99m DTPA
- 检测正阳子, 碘和, Tc-99m DTPA
- AIRBORNE CONCENTRATION
- 气溶胶浓度
- INTEGRATED EXPOSURE
- 综合辐射
- HIGH SENSITIVITY
- 高灵敏
- REAL TIME ALARM
- 实时报警
- LINE OPERATED
- AC线电源
- STANDARD FM-9 MODULES
- 标准FM-9模块
- CAN DRAW AIR FROM HOOD, DUCT, ETC.
- 可从风罩, 管道等抽取气样
- QUICK CHANGE FILTER CARTRIDGE
- 快速更换过滤芯
- REGULATED AIR FLOW
- 调节气流
- BUILT-IN DATA ARCHIVE & RETRIEVAL
- 内置数据存档与检索
- DATA UPDATES EVERY FEW SECONDS – OPERATOR SETTABLE
- 数据几秒内更新-操作员设定
- COMPUTER INTERFACE – USB OR ETHERNET
- 电脑接口-USB或以太网
- TRANSPORTABLE / CART MOUNTED UNIT AVAILABLE
- 可移动/车载型

FM-9-ABNI



Detector PGS-31

USERS: 用户

- Hospitals / Research
- 医院/研究所
- Power Plants
- 核电站
- National Labs
- 国家实验室



TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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APPLICATION: 应用

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.

FM-9-ABNI空气监测器针对气载辐射污染物，通过连续检查报警记录功能确保安全。此仪器提供综合辐射信息并通过外置打印机或电脑提供硬拷贝。

It is a complete system and may be expanded per need with modules of the **FM-9** series.

The **FM-9- ABNI** may be used to monitor stack effluent down to EPA levels as well as hoods, glove box or workplace air.

此系统完全一体，根据需要可用**FM-9**系列模块进行功能拓展**FM-9- ABNI**可用作烟道排放物监测器，测量低到环保部门排放标准，还可用于风罩，手套箱和操作间空气测量。

HOSPITALS: Protect workers, patients & the public.

医院：保护工作人员，病人和公众

- Use as Iodine Monitor for thyroid assessment & treatment areas
- 甲状腺诊断与治疗区用作碘监测器
- Use as a Positron Monitor for all PET scan facilities.
- 所有PET扫描设施中用作正阳子监测器
- Use as a Tc-99m DTPA Air Monitor for areas where bone scans and DTPA lung function studies take place.
- 在骨扫描和 DTPA肺功能研究区用作Tc-99m DTPA空气监测器。

POWER PLANTS: Protect Workers & the community

核电站：保护工人和当地社区

- Use in radiation building.
- 用在辐射建筑物中
- Use in containment.
- 用在安全壳中
- Use in the chemistry lab.
- 用在化学实验室中
- For detection of Iodine & other radio chemicals.
- 用于监测碘和其它辐射化学物

NATIONAL LABORATORIES: Protect workers & the public

国家实验室：保护工作人员和公众

- Sees airborne particulates.
- 可见气溶胶粒子
- Sees airborne radio chemicals of all types except Noble Gases
- 可见除惰性气体以外的所有类型气溶胶辐射化学物



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DESCRIPTION: 描述

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.

FM-9-ABNI使用TA公司独特的快速更换标准炭滤芯，密封托架，可捕获任何气溶胶碘，并在带薄窗闪烁探头持续监测下。空气由调节泵通过3英尺长的入气管抽进，由另一根3英尺长的管线排出。

管线可延长以便监测排风罩，手套箱，烟道等。与泵连接的里程计式计时器用于录入时间。

此系统完全一体便携，带10个滤芯。

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.

每分钟 $2 \times 10^{-10} \mu\text{Ci/ml}$ 辐射等于加州安全守则第 17 和美国核管局 第 10 条规定，每周 40 小时暴露在最危险 β 和/或 γ 发射物限值的 0.6%，Ac 227 除外。

DETECTOR: 探测器

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

型号 **PGS-3** 对所有碘和正阳子发射物敏感

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

直径 2" 探头带薄窗，1" x 1" 厚晶体闪烁体探测器

ELECTRONIC MODULES INCLUDE: 电子学模块包括:

Power Supply and MV-5.12.24.



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电源和MV-5.12.24.

MAC-5: Air Control Timer; Low Flow Alarm Flowmeter
气样控制计时器，低流报警流量计

MGA-5: Single Channel Analyzer
单道分析仪

MCT: On-Board computer with color monitor
机载电脑带彩屏

WEIGHT AND DIMENSIONS: 重量和尺寸

ITEM 名称	WEIGHT 重量	DIMENSION 尺寸
Electronics 电子学	20 lbs	21W x 16D x 11H
Pump 泵	8 lbs	6W x 6D x 8H
Detector Shield with Detector 探头屏蔽和探头	30 lbs	13L x 6W x 6H
Shipping Weight 发货重量	65 lbs	



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