

**PET OR IODINE AIR MONITOR
GAS AND PARTICULATE
MODEL # FM-9-ABNI
PET/碘空气监测器
气体和粒子
型号 FM-9-ABNI**

FEATURES:

- 产品特点
- AIRBORNE CONCENTRATION**
气溶胶浓度
- INTEGRATED EXPOSURE**
综合暴露
- HIGH SENSITIVE**
高敏感
- REAL TIME ALARM**
实时报警
- LINE OPERATED AC**
线操作
- PORTABLE**
便携式
- STANDARD FM-7/9 MODULES**
标准 FM-7/9 模块
- CAN DRAW AIR FROM HOOD, DUCT, ETC.**
可以从风罩/管里抽取空气
- QUICK CHANGE FILTER CARTRIDGE**
快速更换滤芯
- REGULATED AIR FLOW**
调节空气流量
- COMPUTER INTERFACE – USB OR ETHERNET**
计算机 USB 接口或以太网
- DATA LOGGER - BUILT-IN**
内置数据录入器



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. It is a complete system but may be expanded per need with modules of the FM-9 series. The FM-9- ABNI is a more sensitive and versatile version of the broadly used long time standard, the FM5-ABNI. They may be used to monitor stack effluent down to EPA levels as well as hoods, glove box or workplace air.

FM-9- ABNI 空气监测器有对气溶胶辐射污染物持续检测，报警并记录功能，以确保安全。此仪器提供一体化综合暴露信息，通过打印机或电脑可以硬拷贝，是一套完整系统，可根据需要用 FM-9 系列模块进行拓展。FM-9- ABNI 以 FM5-ABNI 为基础（一款一直以来广泛使用的机型），更敏感，功能更多，可用于监测烟囱道排放物，低到 EPA 标准，也可用于检测排风管，手套箱或工作场所空气



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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 在 TA 产品独特快速转换中使用标准炭滤器，无漏夹可捕获任何气溶胶辐射碘。通过闪烁探头薄窗可持续监测滤网，带 3 英尺长进气软管的调节泵吸入气体，经过一个流量计及另外一根 3 英尺长的软管排出，可延伸以监测风管，手套箱和烟囱道等，通过一个里程表类型的定时器计时，与泵电路连接，此仪器完全一体、便携。配有 10 个滤芯

SPECIFICATIONS 规格

Sensitivity: 灵敏度

Limit of sensitivity (as Iodine 131 or positron emitter) 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 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.

在 8 小时内，120L/min 的气流量灵敏值，（根据碘 131 或正电子发射极）是 4×10^{-13} 微居里/毫升，，或 40 小时的期间内，为 8×10^{-14} 至 14×10^{-14} 微居里/毫升，这相当于每分钟曝光 2×10^{-10} 微居里/毫升，这是等于 0.6% 的加州安全守则第 17 和 USNRC 第 10 条的每周 40 小时对最危险 β 和/或 γ 放射器的暴露标准，不含 Ac 227

•**Detector:探头**

2" diameter probe with thin window, thin crystal, scintillation detector, Model PGS-3I for sensitivity to ALL iodines and positron emitters.

直径 2"，带薄窗、薄晶体闪烁探测的探头，型号 PGS-3I 对所有碘和正电子辐射发射器敏感。

•**Electronic Modules Include: 电子学模块包括:**

•**Power Supply and MV-5.12.24. 电源和 MV-5.12.24.**

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

MAC-5: 气流控制计时器，低流报警率表

•**MGA-5: Single Channel Analyzer**

MAC-5: 单道分析仪

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

MCT: 机载电脑，彩屏

