

BETA – GAMMA PARTICULATE AIR MONITOR

β - γ 粒子空气监测器

Model ~ FM-9-ABGN

FEATURES: 特点

- AIRBORNE CONCENTRATION
- 气溶胶浓度
- INTEGRATED EXPOSURE
- 综合暴露辐射
- HIGH SENSITIVE
- 高灵敏度
- REAL TIME ALARM
- 实时报警
- LINE OPERATED
- 电线供电
- PORTABLE
- 便携
- STANDARD FM-9 MODULES
- 标准FM-9模块
- CAN DRAW AIR FROM HOOD, DUCT, ETC.
- 可以从排气罩, 风管等取样
- QUICK CHANGE FILTER CARTRIDGE
- 快速更换滤芯
- REAL TIME AIR FLOW MEASUREMENT DISPLAY
- 实时气流测量显示
- COMPUTER INTERFACE – USB OR ETHERNET
- 电脑接口-USB或以太网
- DATA LOGGER - BUILT-IN
- 数据录入器-内置



APPLICATION: 应用

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

FM-9-ABGN空气监测器通过连续检测报警记录功能测量辐射气溶胶浓度以确保安全, 并通过外接打印机或电脑硬拷贝, 提供综合暴辐信息.

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

此系统为一体机, 但可根据需要用FM-9系列进行功能扩展。



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Divisions of



USNUCLEAR CORP

OVERHOFF TECHNOLOGY

7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) 818-883-6103 (Fax)

tagold@nwc.net

WWW.TECH-ASSOCIATES.COM

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The **FM-9-ABGN** is **sensitive and versatile**.

FM-9-ABGN灵敏且多功能

It may be used to monitor stack effluent down to EPA levels as well as hoods, glove box or workplace air.
可以用来监测烟囱道排放物低至EPA标准。还可用于排风罩或工作间空气测量。

DESCRIPTION:描述

The **FM-9-ABGN** uses a standard filter in TA's unique quick change, no leak holder to trap any airborne particulates. The filter is under constant surveillance via a thin window pancake detector.

FM-9-ABGN使用标准TA独特快速更换滤网，密封托架，捕获任何气溶胶辐射物。滤器通过扁平管探头薄窗被连续监视。

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.

空气由调节泵通过一根3英尺长入气管抽进；流经一块流量表，通过另一根3英尺长软管排出。这些软管可延长以便监测风罩、手套箱、烟囱道等。

Time is recorded by a computer wired into the pump circuit.

The unit is completely self-contained and portable. Complete with box of 100 filters.

时间由一个连接到泵电路的电脑记录。此装置完全一体便携。带 100 片滤纸。

SPECIFICATIONS: 规格

Sensitivity:灵敏度

Limit of sensitivity 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.

在流量为 120 升/分钟时，综合时段超过 8 小时，灵敏限值为 4×10^{-13} $\mu\text{Ci}/\text{cc}$ 或 40 个小时 8×10^{-14} $\mu\text{Ci}/\text{cc}$

This corresponds to 2×10^{-10} $\mu\text{Ci}/\text{ml}$ 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.

相当于 2×10^{-10} $\mu\text{Ci}/\text{cc}$ 每分钟暴辐，这数值等于加州安全准则 17 条和 USNRC 第 10 条对于在没有 Ac²²⁷ 出现情况下每周 40 小时暴露在最危险的 β γ 发射体下的 0.6%。

Detector: 2" diameter thin window GM detector Model T-1190
with sensitivity to **ALL** Beta-Gamma positron emitters.

探头：直径2"薄窗GM探头型号 T-1190测量所有 β - γ 正电子发射体



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ELECTRONIC MODULES INCLUDE:

电子学模块包括:

MV-5.12.24:	Power Supply 电源
MAC-9:	Air Control Timer; Low Flow Alarm Flowmeter 空气控制定时器, 低流报警流量表
FM-9:	On Board computer with color monitor 彩屏机载电脑
MμP:	Imbedded processor 嵌入式处理器
Range: 量程	1 x 10 ⁻¹³ to 1 x 10 ⁻⁷ μ Ci/cc or (Ci/m ³) depends on count time and flow rate. 1 x 10 ⁻¹³ - 1 x 10 ⁻⁷ μ Ci/cc 或 (Ci/m ³), 根据计数时间和流量而定。
Alarm: 报警	Settable. 2000 Hz beeper and red flasher. 可设定, 2000 Hz蜂鸣音和红灯。
Response Time: 响应时间:	Settable 1 second to 40 hours. 可设定1秒-40小时
Readout: 读数:	7" Color LCD monitor built-in for digital and graphic user data display. 7英寸彩色LCD内置显示器用来显示用户数字和图谱数据。
Flow Rate: 流量	Normally set at 70 liters/min. 正常设定70L/分钟
Mass Flow Meter: 质量流量计:	Real-Time air flow rate data feeds directly into data analyzer software and embedded processor for highest concentration accuracy. 实时空气流量数据直接反馈到数据分析软件和嵌入式处理器以获得最高浓度精度。
Power: 电源:	115V, 50-60 Hz (Optional 230 V). 115V, 50-60 Hz (可选择230V)
Shielding: 屏蔽	1" lead about sample and detector. 样品和探头周围1"铅屏
Pump: 泵:	Muffler and trap included. 115V 60Hz 2A. (230 V 50-60 Hz optional). 包括消音器和托盘115V 60Hz 2A. (230 V 50-60 Hz 选项).
Filters: 过滤器:	Includes box of 100 glass fiber filters – 2" or 55mm. Can also use membrane, paper or glass fiber filters. 包括一盒100片玻璃纤维滤网-2"或55mm,也可以使用滤膜或过滤纸
Case: 外箱:	Electronics housed in enameled aluminum case; carrying handles optional. 电子学封装在抛光铝外箱中, 可选购提手



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WEIGHT & DIMENSIONS:

重量&尺寸

Dimensions: Excluding pump and detector assembly: 20"W x 13"H x 18" D.
尺寸: 不包括泵和探头组件: 20"W x 13"H x 18" D

Detector assembly 5"W x 10"H x 6" D.

探头组件5"W x 10"H x 6" D

Pump assembly 8"W x 8"H x 14"D.

泵组件8"W x 8"H x 14"D.

Shipping Weight: 84lbs.

装运重量: 84磅

Accessories: Filter: Free flowing glass fiber filters – 2" or 55mm.
配件: 过滤器: 自由流玻璃纤维-2"或55mm

DESCRIPTION 描述	FM-9-ABGN
Read-Out Units 读出单位 Optional Read-Out Units 可选读出单位	μCi/cc Specify at Time of Order 订购时指定
Measures 测量	Airborne Concentration 气溶胶浓度
Smart System 智能系统	Calculations by Imbedded Processor 嵌入式处理器 On Board Data 机载数据录入器 Logger
Special Feature 特别功能	Electronic Mass Flowmeter 电子质量流量计



Oil-Less Green Turtle Pump



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