

# NOBLE GAS AIR/STACK MONITOR ARGON – XENON – KRYPTON

惰性气体空气/烟道监测器 氩-氙-氪

FM-9XE-NG ~ FM-9NGAS-2 ~ FM-9NGAS-3 ~ FM-9NGAS-6S

## FEATURES: 特点

- DIGITAL NOBEL GAS MONITOR  
惰性气体数字监测器
- SIX-DIGIT READOUT  
6位数读数
- AIRBORNE CONCENTRATION & TOTAL DOSE IN Bq/l OR IN MPC (OR ANY UNITS)  
气载浓度&总剂量单位Bq/l或MPC或任何单位
- USER FRIENDLY  
用户友好界面
- SETTABLE ALARMS  
可设定报警
- COMPUTER INTERFACE USB OR ETHERNET  
电脑接口USB或以太网
- DATA ARCHIVE & DATA RETRIEVAL  
数据存档与检索
- GM PROBE OR SCINTILLATION PROBE FOR LOW LEVELS  
GM探头或闪烁体探头用于低浓度测量



FM-9NGAS-2, FM-9NGAS-3, FM-9NGAS-6S



FM-9XE-NG  
FLOW CELL & DETECTOR ASSEMBLY



FM-9XE-NG ELECTRONICS



**TECHNICAL ASSOCIATES  
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## APPLICATION: 应用

The **FM-9NGAS** Monitor is fast becoming the first choice for Noble Gas measurement in facilities all over the world.

型号 **FM-9NGAS** 监测器快速成为全世界各单位惰性气体测量的首选

- Industrial Uses  
工业用途
- Nuclear Power Plants  
核电站
- Laboratories  
实验室
- Low Level Model **FM-9NGAS-6S** Scintillator:  $1 \times 10^4 - 1 \times 10^8 \text{ Bq/m}^3$   
低浓度型号 **Model FM-9NGAS-6S** 闪烁体:  $1 \times 10^4 - 1 \times 10^8 \text{ Bq/m}^3$

## DESCRIPTION: 描述

The **FM-9NGAS** series Noble Gas Monitors determines Noble gas content of air by drawing the air through a gas chamber which is under constant surveillance by a radiation detector.

此系列惰性气体监测器通过将空气引进气室，由辐射探头连续监测来确定惰性气体成分

A six foot outlet and inlet hose draws air from the use area, duct, stack, glove box, hood or filter trap.

一条6英尺长的进气/出气管从使用区域，管道，烟道，手套箱，排风罩或过滤器引进气体

All data is recorded on internal memory. Data archive and retrieval is available via USB or Ethernet Port.

所有数据存储在内存卡中，可通过USB或以太网接口进行数据存储与检索

An alarm is both visual and audio with a red flashing light and/or 2,000 Hz (beep) should the preset level be exceeded.

视听报警，闪烁红灯带2,000 Hz蜂鸣音。

DESCRIPTION 描述	FM-9NGAS ~ SERIES
Read Out (Units) 读出单位	Bq/m <sup>3</sup> , uCi/cc, DAC, or Bq/L
Measures 测量	Airborne Concentration 气溶胶浓度
Hardware 硬件	❖ Calculations by Imbedded Processor 内置处理器 ❖ On Board Data Logger 内置数据录入器
Available Options 可选项	Electronic Mass Flowmeter 电子流量计



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## SPECIFICATIONS: 参数

Sensitivity in the case of elevated background.

本底升高条件下灵敏度:

Count Time	N <sup>16</sup> Background	MDA FM-9NGAS-2 Ar <sup>41</sup> Concentration	MDA FM-9NGAS-3 Ar <sup>41</sup> Concentration
20 min.	2mR/hr	1 x 10 <sup>-7</sup> μCi/ml	5 x 10 <sup>-8</sup> μCi/ml
33 min.	4mR/hr	1 x 10 <sup>-7</sup> μCi/ml	5 x 10 <sup>-8</sup> μCi/ml
70 min.	8mR/hr	1 x 10 <sup>-7</sup> μCi/ml	5 x 10 <sup>-8</sup> μCi/ml
30 min.	0.01mR/hr	1 x 10 <sup>-8</sup> μCi/ml	5 x 10 <sup>-9</sup> μCi/ml
8 hr..	2mR/hr	2 x 10 <sup>-8</sup> μCi/ml	1 x 10 <sup>-8</sup> μCi/ml

### RANGE OF FM-9NGAS-6S

1 X 10<sup>4</sup> – 1 X 10<sup>8</sup> Bq/m<sup>3</sup>    3 x 10<sup>-8</sup> – 3 x 10<sup>-4</sup> μCi/mL

## NOBLE GAS COMPARISON

	FM-9XE-NG	FM-9NGAS-2	FM-9NGAS-3	FM-9NGAS-6S
Chamber Volume	300 cc	1 liter	1 liter	600 cc
Main Detector	(1) 2" dia T-1190 GM	(1) 2" dia T-1190 GM	(2) 2" dia T-1190 GM STANDARD (3) 2" dia T-1190 GM OPTIONAL	(2) 6" x 6" Organic Scintillator Sheets
Shielding	3/8"	1.0"	3.0"	3/8" or 3/4"
Background Subtract Detector	Electronic	Electronic	Real Time 2" dia T-1190 GM	Electronic
Weight (lbs)	<u>Pounds</u>	<u>Pounds</u>	<u>Pounds</u>	<u>Pounds</u>
Electronics	12	12	12	12
Pump	7	14	14	14
Detector Shield	22	200	590	90 or 150



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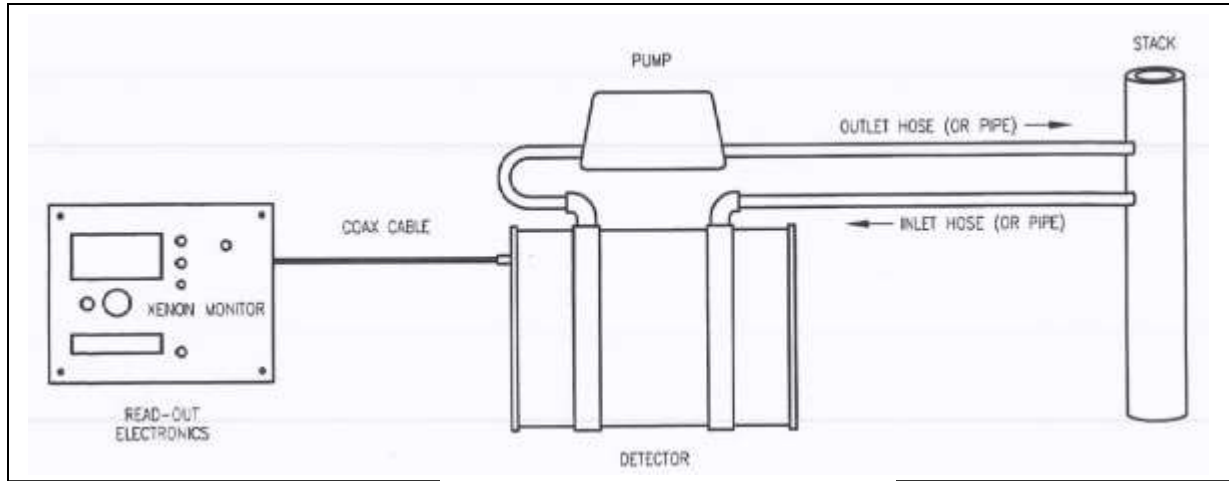
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FM-9NGAS SYSTEM OVERVIEW



FM-9NGAS - ULTRA LOW NOISE PUMP

Green Turtle Pump

超低噪音绿龟泵



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