

# FLAT FERET TRITIUM SURFACE CONTAMINATION MONITOR

## 氚表面污染监测器

Model ~ FF-27

### FEATURES 特点

- PORTABLE 便携灵敏FF-27探测器  
**SENSITIVE FF-27 DETECTOR**
- DETECTS TRITIUM & C-14  
探测氚& C-14
- LOW GAS CONSUMPTION  
低耗气
- AUTO GAS SHUTOFF  
**LAM-SCA ELECTRONICS**  
自动关闭气源, **LAM-SCA**电子学
- REJECTION OF OTHER NUCLIDES  
屏蔽其它核素
- INTEGRATION CAPABILITIES  
一体化功能
- BATTERY OPERATED  
电池供电
- BUILT IN AUDIO  
内置音频
- GAS BOTTLE BRACKET  
气瓶卡托
- **OPTIONAL: ALARM RELAY**  
可选: 报警继电器



FS-27  
DETECTOR



LAM-SCA ELECTRONICS  
WITH GAS BOTTLE  
BRACKET

### DESCRIPTION: 描述

The FF-27 Tritium Contamination Monitor is a portable gas flow proportional counter sensitive to Betas of H-3 & C-14. The windowless probe slides over flat surfaces on poly tape which gives repeatable spacing from surface as well as easy scratch-free movement. The poly tape is easily cleaned but may also be replaced if contaminated.

FF-27氚污染监测器是一款便携流气式正比计数器, 对H-3 & C-14  $\beta$  灵敏。无窗探头从聚乙烯带平坦表面上方滑过, 聚乙烯带确保了到表面距离相等, 同时滑动时无刮擦, 聚乙烯带容易清洗, 污染了可更换。

**NOTE:** P-10 counting gas is utilized in the FF-27 probe. It is non-combustible & can be used in any environment. Two lecture cylinders for P-10 gas are included with instrument.

注: FF-27探头使用P10气体, 不易燃&可用于任何环境, 随机配备两个P10气瓶。



**TECHNICAL ASSOCIATES**

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**\*Cylinders are shipped empty.**

\*空瓶邮寄

Gas use is minimized by careful design of chamber & by auto shut- off of gas flow when ``trigger" on probe handle is released.

精心设计及探头把手上“触发器”松开时自动关机气流功能将气体使用最小化。

Typical counting efficiency is 50%  $2\pi$  of all Tritium Betas escaping the surface being monitored as compared with results obtained using an internal hemispherical  $2\pi$  counter.

与内置半球 $2\pi$ 计数器相比，典型计数效率为被测表面逃逸的全部氚 $\beta$ 的立体角 $2\pi$  50%。

Gas flow is normally set at 800 cc/min providing a one hour use for lecture bottle or longer with optional larger cylinder.

气流正常设定800 cc/min情况下一个气瓶可供应一小时，使用较大气瓶可用更长时间。

**OPTIONAL:** Probe may also be used to monitor hands, clothing & equipment with **Optional Model H** face plate.

选项：使用Model H型底面，探测器也可监测手，衣物及设备。

**ELECTRONICS:** Power switch and HV pot and other controls are designed to prevent inadvertent change. The audio output of the high level alarm is controlled by a volume mute switch.

电子学：电源开关和高压电位计及其它控制设计防疏忽操作。上限报警音量输出由音量静音开关控制。

Standard features include jack for AC adapter and serial output jack with optional USB adaptor. Yet the overall instrument, including all of these functions and battery life up to 1 week, weighs only 5 pounds.

标准配置包括AC电源插孔和串口插孔，带USB适配器。整台仪器，包括这些功能及可使用一周的电池，仅重5磅。

### SPECIFICATIONS:

### 规格

<b>Detector:</b>	<b>FS-27</b> Proportional Gas Flow
探测器:	<b>FS-27</b> 流气式正比计数器
<b>Ranges:</b>	0-10; 100; 1,000; 10,000 cts/sec (FF-26 and FF-27)
量程:	
<b>Flowmeter:</b>	10-1000 cc/min. Needle Valve Control.
流量:	
<b>Background:</b>	15 cts/sec
本底	



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### Controls: 控制

- Open Range Switch  
量程开关
- Battery Check  
电池检测
- Flow Gas Control  
气流控制
- Sound Volume Control.  
音量控制
- Hidden High Voltage Bias Supply For Detector:  
隐蔽式探测器高压偏置电源
- Input Sensitivity, High voltage control  
输入灵敏度控制, 高压控制

**Calibration:** 4 range pots and 1 overall control. Internal.

**校准:** 4量程电位计和1个总控制, 内置。

**Sensitive Area:** 100 cm<sup>2</sup> (6cm x 21.6cm).

**灵敏面积:**

**Sensitivity:** 100 Bq/100 cm<sup>2</sup>, 35 cts/sec above background

**灵敏度:**

**POWER:** 电源

**Battery:** 2 nine volt, 300 hour normal operating life.

**电池:** 2节9V, 正常操作300小时寿命

**WEIGHT & DIMENSIONS** 重量&尺寸

**FF-27:**

**Weight:** 0.57 Kg (1lb. 4 oz.)

**重量**

**Dimensions:** 11" L x 2 1/4"W x 3 3/4" H including Handle & Gas Shut Off Switch

**尺寸:** 包括提手&关气阀在内11"长 x 2 1/4"宽 x 3 3/4"高

**LAM-SCA Electronics with Gas Cylinder Bracket:**

**LAM-SCA 电子学及气瓶卡托**



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### Model ~ FF-27

**Dimensions:** 10" L x 4.1"W x 7" H (25 cm L x 10.5 cm W x 18 cm H)

尺寸:

**Weight:** 2.5kg (5lbs) including batteries.

重量:

**Options:** Alarm Relay

可选: 报警继电器

**P-10 Gas Cylinder:** 0.6 Kg (2lbs. 6 oz when full.) (Cylinders shipped empty)

P-10气瓶: 0.6千克 (满瓶时6盎司) (气瓶邮寄时空瓶)

**OPTIONAL:** 选择:

**Detector:** **FF-26:** 20 cm<sup>2</sup> Sensitive Area

探测器: **FF-26:** 灵敏面积20 cm<sup>2</sup>

**Larger Gas Cylinder:** (DOT 3AA2015) On two wheel dolly.

较大气瓶: (DOT 3AA2015) 放在两轮推车

**Model H Face Plate:** Hands, Clothing, Equipment Probe

H型探测底板: 手, 衣服, 设备。



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