

THE FLAT FERRET, MODEL FF-27

OPEN WINDOW GAS PROPORTIONAL COUNTER

开窗气体正比计数器

MODEL FF-27 FOR REJECTION OF OTHER
NUCLIDES AND INTEGRATION CAPABILITIES

型号 FF-27 抑制其它核素&功能一体化

FEATURES: 特点

- PORTABLE 便携
- SENSITIVE 灵敏
- LOW GAS CONSUMPTION 低气消耗
- BUILT IN AUDIO 内置音频
- AUTO GAS SHUTOFF 自动气体关闭

DESCRIPTION: 说明

The FF-27 Tritium Contamination Monitors are portable gas flow proportional counters sensitive to betas of H-3. The windowless probes slide 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. P-10 counting gas utilized in the FF-27 probes is non-combustible and can be used in any environment

FF-27 氚污染监测器为便携式流气式正比计数器，对氚 β 敏感。无窗探头滑过聚乙烯带，使探头到表面的探测距离相同，且无划痕。聚乙烯带容易清理，如果污染了需要更换。FF-27 探头使用的 P-10 计数气体不可燃，可用于任何环境

Gas use is minimized by careful design of chamber and by auto shut-off of gas flow when "trigger" on probe handle is released. Typical counting efficiency is 70% of all Tritium betas escaping the surface being monitored as compared with results obtained using an internal hemispherical 2 pi counter. Gas flow is normally set at 800 cc/min, giving a one hour use for lecture bottle or, of course, proportionally longer within larger cylinder. (See option below) Probe may also be used to monitor hands, clothing and equipment with included Model H face plate. Two lecture cylinders of P-10 gas are included with instrument.

精心设计的电离室，当探头把手上的“trigger”被放开，自动断开流气，低气体用量，与使用内置半球 2 π 计数器获得测量结果相比，典型计数效率是所有逃离监测表面氚 β 的 70%。气流正常设定 800 cc/min 一气阀瓶使用一小时，当然大的气瓶使用时间相应延长，（见以下选项）探头还可以被用来监测手，衣服和带 H 形面板的设备，仪器包含 P-10 气体两瓶。

The electronics include OTC stabilized high voltage bias supply, preamp, pulse shaper and pulse to analog converter. Circuit design minimizes recovery time of detector and allows linear response at higher count rates than previously possible. A piezo electric speaker with volume control and 3-1/2" meter provide audible as well as visual readout.

电子学包括 OTC (Overhoff 公司)稳定的高电压偏置电源，前置放大器，脉冲整形器，脉冲模拟转换器，电路设计尽量缩短检测器恢复时间，跟以前比较，在较高计数率情况下允许线性反应，压电扬声器，带音量控制和 3-1/2"仪表提供视听读数。

SPECIFICATIONS 规格

Ranges: 测量范围

500; 5,000; 50k; 500k cts/min (FF-27M) or
0-10; 100; 1,000; 10,000 cts/sec (FF-27S)



1160 US ROUTE 50
MILFORD, OHIO 45150-9705
TELEPHONE (513) 248-2400
FACSIMILE (513) 248-2402
E-MAIL sales@overhoff.com
WEB www.OVERHOFF.com

Flow meter: 10-1000 cc/min. Needle valve control.
流量计: 10-1000 cc/min. 针阀控制

Background: 本底

Typically less than 800 cts/min for (FF-27M) or 15 cts/sec for (FF-27S)
典型小于 800 cts/min 限于 (FF-27M) 或 15 cts/sec 限于 (FF-27S)

Controls: 控制

Open range switch, battery check, flow gas control, sound volume control.
Hidden high voltage bias supply for detector: Input sensitivity high voltage control.
开放式量程开关, 电池检测, 流量控制, 音量控制。隐藏式探测器高压偏置电源, 输入灵敏度高压控制

Calibration: 校准

4 range pots and 1 overall control. Internal.
4 个量程电位计和一个总开关, 内置。

Detection Area: 探测区域

FF-27S (or M) With clothing mask attached 0.5cm x 14cm.
Mask removed 4.6cm x 21.6cm.
FF-27S (或 M), 带衣罩 0.5cm x 14cm, 不带罩 4.6cm x 21.6cm.

Sensitivity: At 100 Bq/100 cm², 35 cts/sec above background for FF-27.

灵敏度: 型号 FF-27 为本底以上 100 Bq/100 cm², 35 计数/秒

Battery: 电池

2 nine volt "transistor" batteries Eveready 1222 or equivalent, 300 hour normal operating life.
两节 9V "晶体" 电池, 永备 1222 或相似电池, 正常使用寿命 300 小时

Weight: 重量

Probe FF-27: 0.57 Kg (1lb. 4 oz.)
探头 FF-27: 0.57 Kg (1lb. 4 oz.)
Electronics Package: 2.6 Kg (5lbs. 12oz.) plus
电子学组件: 2.6 Kg (5lbs. 12oz.)
P-10 gas container: 0.6 Kg (2lbs. 6 oz.)
P-10 气体容器: 0.6 Kg (2lbs. 6 oz.)

Shipping Weight: 15 lbs.

装船重量: 15 磅

Option: 选购

Larger gas cylinder (DOT 3AA2015) 35 capacity of lecture bottle. On two wheel dolly.
更大气体瓶(DOT 3AA2015), 容量 35 气阀瓶, 两轮推车



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