

# SCINTILLATION PROBES

## ALPHA &/or BETA

### $\alpha$ & $\beta$ 闪烁探头

#### Scintillation Probes: 闪烁探头

- **PAS-8** Alpha Scintillation Probe with 1-3/4" diameter x 0.8 mg/cm<sup>2</sup> window. For use wherever a high efficiency, low background alpha detector is indicated. **(Figure 1)**
- PAS-8  $\alpha$  闪烁探头，带直径 1-3/4" x 0.8 mg/cm<sup>2</sup> 窗，用于任何需要使用  $\alpha$  探测器的高效低本底的地方。（图一）
- **PAS-9** Alpha Scintillation Probe with a 4-1/2" diameter x 0.8 mg/cm<sup>2</sup> window. The 100 cm<sup>2</sup> face of this probe allows rapid surveys to be made of personnel, equipment or flat surfaces. Background is in the order of several counts per hour. Sensitivity is 10 to 20% for 5 MeV. alphas based on 4Pi geometry (20 to 40% based on 2Pi geometry). The protective grid is physically separated from the window thus making contamination of the window extremely unlikely. Grid may be removed for cleaning without disturbing the window. some sacrifice of sensitivity has been make for this feature. **(Figure 2)**
- PAS-9  $\alpha$  闪烁探头带直径 4-1/2" x 0.8 mg/cm<sup>2</sup> 窗.面积 100 cm<sup>2</sup> 探头设计为快速检测人员，设备或平坦表面。本底每小时大约几次计数，根据 4Pi 几何结构 对于能量 5 MeV 的  $\alpha$  灵敏度为 10 - 20%（2  $\pi$  几何结构为 20 - 40%）保护格栅物理上与窗分离，这样几乎不可能污染窗，在不影响窗的情况下格栅可以被移除清理，这种功能灵敏度稍微受些影响。（图二）
- **PAS-9R** Similar to **PAS-9**, Sensitivity
- PAS-9R 与 PAS-9 相似，灵敏度
- Area: 125cm<sup>2</sup>.
- 面积: 125 cm<sup>2</sup>
- Net Open: 100cm<sup>2</sup>.



**Figure 1**

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- 净开放面积: 100cm<sup>2</sup>.
- 
- Rectangular FACE: 5.5" x 4" Gross. (**Figure 3**)
- 长方形 探测面: 5.5" x 4"
- (图三)
- **PBS-42** Identical to the **PBS-44** except that the sensitive diameter is 1.5".
- (**Figure 2**)
- PBS-42 与 **PBS-44** 相同除了灵敏直径为 1.5"。(图二)
- **PBS-43** Beta Scintillation probe. 0.020" Phosphor organic. 3.75" diameter gives a 45 cm<sup>2</sup> sensitive area. (**Figure 2**)
- **PBS-43** β 闪烁探头 0.020"有机磷。直径 3.75", 有效面积为 45 cm<sup>2</sup> (图二)
- **PBS-44** Beta Scintillator for rapid monitoring of large surfaces as well as for measuring activity on filter paper in high volume air samplers. Sensitive diameter is 100 cm<sup>2</sup>. Detects betas with energies greater than .05 MeV. The window is normally protected by a 79% open grid. Optionally, a cap is furnished to exclude all betas of 2.5 MeV or less.
- **PBS-44** β 闪烁体用于快速检测大面积表面, 同时测量大体积气体样中滤纸上的活度。灵敏直径为 100 cm<sup>2</sup>。检测高于 .05 MeV 能量 β。正常窗由 79% 开放的格栅保护, 帽排除所有等于或小于 2.5 MeV 的 β。
- **PBS-44R** Similar to **PBS-44**, Sensitivity
- **PBS-44R** 相似于 **PBS-44**, 灵敏度
- Area: 125cm<sup>2</sup>.
- 面积: 125cm<sup>2</sup>.
- 
- Net Open: 100cm<sup>2</sup>.



**Figure 2**



**Figure 3**

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- 网格开放面积: 100cm<sup>2</sup>.
- Rectangular FACE: 5.5" x 4" Gross. **(Figure 3)**
- 长方形面: 5.5" x 4"
- (图三)
- **PABS-42** Alpha plus Beta Scintillation Probe, ZnS(Ag) Alpha Phosphor laminated onto 0.010" Phosphor organic Beta Scintillator. 15 cm<sup>2</sup> sensitive area probe has 2" outside diameter. **(Figure 2)**
- **PABS-42**  $\alpha + \beta$  闪烁探头,  $\alpha$  -ZnS(Ag)压薄在厚度为 0.010" 有机磷- $\beta$  闪烁体上, 灵敏面积为 15 cm<sup>2</sup> 的探头外径为 2"
- **PABS-47** Alpha plus Beta Scintillation Probe, ZnS(Ag) Alpha Phosphor laminated onto 0.010" Phosphor organic Beta Scintillator. 0.010" Phosphor organic. 100 cm<sup>2</sup> sensitive area. **(Figure 2)**
- **PABS-47**  $\beta$  闪烁探头,  $\alpha$  -ZnS(Ag)压薄在厚度为 0.010" 有机磷- $\beta$  闪烁体上, 敏感面积 100 cm<sup>2</sup> (图二)