

SCINTILLATION PROBES ALPHA & BETA

DESCRIPTIONS:

SCINTILLATION PROBES – ALPHA

PAS-8 Alpha Scintillation Probe with 1-3/4" diameter x 0.8 mg/cm² window. For use wherever a high efficiency, low background Alpha detector is indicated.

PAS-9 Alpha Scintillation Probe with a 5-1/2" diameter x 0.8 mg/cm² window. The 100 cm² 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 made for this feature.

PAS-9R Similar to **PAS-9**, Sensitivity Area: 125cm².
Net Open: 100cm². Rectangular FACE: 5.5" x 4" Gross.



**PAS-8
PABS-42
PBS-42**

SCINTILLATION PROBES – BETA

PBS-6x10 Similar to **PBS-44**, Sensitivity Area: 125cm².
Net Open: 100cm².
Rectangular FACE: 5.5" x 4" Gross.

PBS-42 Identical to the **PBS-44** except that the sensitive diameter is 1.5".

PBS-43 Beta Scintillation probe. 0.020" Phosphor organic.
3.75" diameter gives a 45 cm² sensitive area.

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 cm². 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-44R Similar to **PBS-44**, Sensitivity Area: 125cm².
Net Open: 100cm².
Rectangular FACE: 5.5" x 4" Gross.



**PAS-9, PBS-43,
PBS-44, PABS-47**

SCINTILLATION PROBES – ALPHA & BETA

PABS-42 **Dual Phosphor: 1) Alpha; 1) Beta.** Alpha plus Beta Scintillation Probe, ZnS(Ag) Alpha Phosphor laminated onto 0.010" Phosphor organic Beta Scintillator. 15 cm² sensitive area probe has 2" outside diameter.

PABS-47 **Dual Phosphor: 1) Alpha; 1) Beta.** Alpha plus Beta Scintillation Probe, ZnS(Ag) Alpha Phosphor laminated onto 0.010" Phosphor organic Beta Scintillator. 0.010" Phosphor organic. 100 cm² sensitive area. Beta >60 keV



PBS-44R