

PPA-2T SHIELDED ALPHA-BETA-GAMMA PROBE

The shielded PPA-2 detector is the optimal detector for contamination Monitoring and sample counting. A thick tungsten shield produces a very low background, optimizing detection sensitivity.

FEATURES:

- ◆ ALPHA, BETA, GAMMA DETECTION
- ◆ RUGGED METAL HOUSING
- ◆ COMPATIBLE WITH ALL JOHNSON RATE METERS



PPA-2T SPECIFICATIONS:

General Use	Alpha, Beta, Gamma Surveying and Sample Counting
Detector Type	Halogen-Quenched GM Pancake Tube
Shield Material	Tungsten (Stainless Steel Optional)
CPM Range	0-999.9 Kcpm or Kcps
Dose Range	0-200 mR/hr (Cs ¹³⁷) - Requires linearization above 50 mR/hr
Window	1.7 ± 0.3 mg/cm ² mica, protected by a Stainless Steel screen (79% open)
Window Area	Active – 15.5 cm ² (2.4 in ²) Open – 12.3 cm ² (1.9 in ²)
Efficiency (4π)	C ¹⁴ – 5%, SrY ⁹⁰ – 22%, Tc ⁹⁹ – 19%, P ³² - 32%
Energy Response	Energy Dependent
Sensitivity (Cs ¹³⁷ gamma)	≈ 3300 cpm/mR/hr
Operating Voltage	900 vdc
Dead Time	80 μsec
Normal Background	≈ 25 cpm
Environmental	-20°F [-28°C] to 140°F [60°C] 5-95% RH
Connector	BNC (other types available)
Dimensions	4" (10cm) dia x 4" (10 cm) H
Weight	4 lbs (1.36 kg)