Model 44-9 Pancake GM Probe



Indicated Use:Alpha, Beta, & Gamma survey; sample countingDetector:Pancake-type, halogen-quenched GMWindow: $1.7 \pm 0.3 \text{ mg/cm}^2$ mica
window: $1.7 \pm 0.5 \text{ mg/cm}^2 \text{ mica}$
Window Area: $15.5 \text{ cm}^2 (2.4 \text{ in}^2)$ Active; $12.3 \text{ cm}^2 (1.9 \text{ in}^2)$ Open
Efficiency (4 Π): 5% - ¹⁴ C, 22% - ⁹⁰ Sr/ ⁹⁰ Y; 19% - ⁹⁹ Tc; 32% - ¹³² P;
$15\% - {}^{239}Pu, \le 1\% - {}^{99m}Tc; 0.2\% - {}^{125}I$
Sensitivity: Typically 3300 cpm/mR/hr
Energy Response: Energy dependent
Background: 60 cpm
Dead Time: 80 us
Operating Voltage: 900 Vdc
Connector: Series "C" (others available)
Construction: Aluminum housing with beige powder-coat finish
and stainless steel protective screen (79% open)
Input Sensitivity: $\geq -30 \text{mV}$
Size: 1.8" H x 2.7" W x 10.7" L
Weight: 1 lb
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44-9 Probe with Exposure Filter or Dose Filter also available

	051-449	Pancake GM Probe
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051-230 Optional 39" "C" Series Connecting Cable

Model 44-7 End Window GM Probe



Indicated Use: Alpha, Beta, Gamma survey; Sample counting **Detector:** End window, halogen-quenched GM Window: $1.7 \pm 0.3 \text{ mg/cm}^2$ mica Window Area: $6 \text{ cm}^2 (0.93 \text{ in}^2)$ Active; $5 \text{ cm}^2 (0.78 \text{ in}^2)$ Open Efficiency (4II): $2\% - {}^{14}\text{C}$, $10\% - {}^{99}\text{Sr}/{}^{99}\text{T}$; $7\% - {}^{239}\text{Pu}$, $0.1\% - {}^{125}\text{I}$ Sensitivity (${}^{137}\text{Cs}$ gamma): 2100 cpm/mR/hr Energy Response: Energy dependent Background: Dead Time: 40 cpm 200 microseconds (typical) 900 volts Series "C" (others available) Anodized aluminum housing **Operating Volume:** Connector: **Construction:** Size: 1.8" Diameter x 5.8" L Weight: 1 lb 051-447 End Window GM Probe

051-230 Optional 39" "C" Series Connecting Cable

Model 44-2 Gamma Scintillator Probe



44-2	Model 44-2 Gamma Scintillator Probe

051-230 Optional 39" "C" Series Connecting Cable

Model 44-38 Energy Compensated Beta Gamma Probe

Indicated Use:	Beta-Gamma survey		
	quenched GM, 30-45 mg/cm ² stainless steel wall		
Detection Range:	\pm 10% up to 50 mR/hr without DTC		
U	\pm 10% up to 500 mR/hr with DTC		
Sensitivity:	1200 cpm per mR/hr with window closed		
Energy Response:	(60 keV-1-3 MeV): within 20% of ¹³⁷ Cs (662 kev)		
Beta Cutoff:	Approximately 200 keV (window open)		
Background:	20 cpm Closed; 25 cpm Open		
Dead Time:	95 microseconds (typical)		
Operating Voltage	: 900 volts		
Construction:	Anodized aluminum housing		
Window Construc			
Low Energy Blocking Shield: tin shields mounted on aluminum			
	g/cm ²) with solid aluminum section in the middle		
Low Energy P	Pass Through Window: solid aluminum (610 mg/cm ²)		
Connector:	Series "C"		
Size:	1.3" Diameter x 6.5" L		
Weight:	1 lb		
051-278 Mode	el 44-38 Energy Comp. Probe		
051-230 Optio	nal 39" "C" Series Connecting Cable		

Model 44-3 Low Energy Gamma Scintillator Probe

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Indicated Use: 125I and low energy gamma survey Detector Type: NaI(Tl) scintillator, 1" Diameter x 1 mm thick Detector Type: Nat(11) scinitiator, 1 Diameter X 1 mm Window: 18.4 mg/cm² Window Area: 5 cm² (0.8 in²) Active and Open Efficiency (4II): 33.5% - 125 I (based on 129 I efficiency of 18%) Sensitivity: 675 cpm/µR/hr (125 I) Background(10 µR/hr): 300 cpm Recommended Energy Range: 10-60 keV Energy Response: Energy dependent Energy Response: Energy dependant Photomultiplier Tube: 1.5" Diameter **Operating Voltage:** 500-1200 V (typical) Connector: Series "C' Construction: Aluminum with beige powder coat Size: 2" Diameter x 7" L Weight: 1 lb051-443 Model 44-3 Low Energy Gamma Scintillator 051-230 Optional 39" "C" Series Connecting Cable

Indicated Use: Low-level, wide-energy gamma survey Detector Type: NaI(Tl) scintillator, 1[°] Diameter x 1[°]L thick Efficiency: ¹²⁵I - 7%, ⁵⁷Co -10%, ¹³⁷Cs - 3%, ⁶⁰Co - 3% Sensitivity (¹³⁷Cs gamma): 175 cpm/μR/hr Recommended Energy Range: 20 KeV - 1.5 MeV Energy Response: Background: Energy dependant 1800 cpm Photomultiplier Tube: 1.123" Diameter, magnetically shielded Operating Voltage: 500-1200 V Temperature Range: 5 to 122° F, may be certified for -40 to 150°F Series "C' Connector: Aluminum with beige powder coat Construction: 2" Diameter x 7.3" Ľ Size: Weight: 1 lb

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