



Technology for a Healthy Planet

imi

Radiation Detection Instruments since 1986

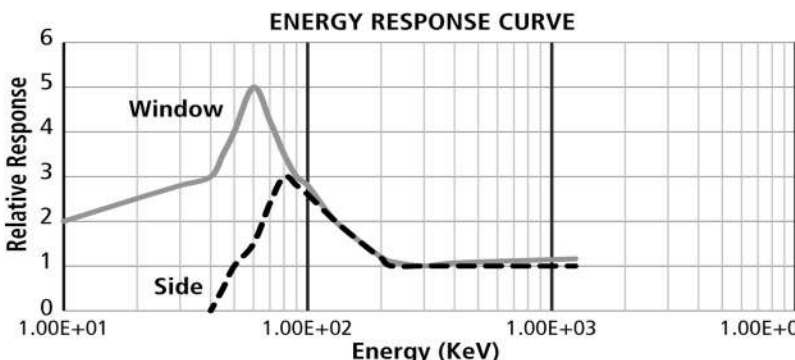


## IMI Inspector Alert™ V2 Surface Contamination Meter



The IMI Inspector Alert™ V2 measures alpha, beta, gamma and X-radiation using a 2-inch “pancake” GM detector with high sensitivity to common beta and alpha sources. The easy-to-read digital display shows reading in your choice of Dose Rate -  $\mu\text{Sv/hr}$  or  $\text{mR/hr}$ , and Count Rate - CPM or CPS. The Total / Timer feature allows timed readings from one minute to 40 hours for precise measurement of low-level contamination. An Audible alert sounds when the radiation reaches a user-adjustable level.

- Quickly alerts user to the presence of harmful levels of nuclear radiation
- Detects noble gases and low energy radionuclides
- Automatically compensates for GM tube dead time
- Will not jam in high radiation fields
- Meets CE Certification, RoHS compliant and WEEE standards

# Technical Specifications

<b>Detector :</b>	Halogen-quenched Geiger-Mueller tube Effective diameter 1.75" (45 mm) Mica window density 1.5-2.0 mg/cm <sup>2</sup> Detects Alpha, Beta, Gamma, and X-radiation				
<b>Display :</b>	4-digit liquid crystal display with mode indicators				
<b>Operating Range :</b>	μSv/hr: .01-1,100 mR/hr: .001-110 CPM: 0-350,000 CPS: 0-5,000 Total: 1-9,999,000 counts				
<b>Calibration:</b>	Cesium-137 (gamma)				
<b>Gamma Sensitivity:</b>	3500 CPM/mR/hr referenced to Cs-137 Smallest detectable level for I-125 is .02 mCi at contact				
<b>Efficiency :</b>	For 4 pi at contact :				
<b>Isotope</b>	<b>Energy</b>	<b>Efficiency</b>			
C-14 (Beta)	49 keV avg. 156 keV max.	5.3%			
Bi-210 (Beta)	390 keV avg. 1.2 MeV max.	32%			
Sr-90 (Beta)	546 keV and 2.3 MeV	38%			
P-32 (Beta)	693 keV avg. 1.7 MeV max.	33%			
Am-241 (Alpha)	5.5 MeV	18%			
<b>Accuracy :</b>	±10% typical; ±15% maximum				
<b>Alert Range :</b>	μSv/hr: 0 to 500 mR/hr: 0 to 50 CPM: 0 to 160,000 Beeper sounds the alert	 			
<b>Timer :</b>	Can set sampling periods of 1 minute to 40 hours				
<b>Averaging Periods :</b>	Display updates every 3 seconds, showing the average for the past 30-second time period at normal levels The averaging period decreases as the radiation level increases				
<b>Count Light :</b>	Red LED flashes with each count				
<b>Audio :</b>	Beeper chirps for each count (can be muted)				
<b>Ports :</b>	• Output: Stereo 3.5 mm jack sends counts to computers, data loggers, other CMOS-compatible devices, earphones, and educational data collection systems. 0-9 V, 1 kOhm impedance. • Input: 2.5 mm mono jack provides calibration input. 0-3.3 V, > 5 μs width, rising edge triggered				
<b>Anti-Saturation :</b>	Readout holds at full scale in fields up to 100 times the maximum reading				
<b>Temperature Range :</b>	-20° to +50° C, -4° to +122° F				
<b>Power :</b>	One 9-volt alkaline battery; battery life 2000 hours typical, 700 hours minimum at normal background radiation levels at sea level Battery life decreases as radiation level rises				
<b>Size :</b>	150 x 80 x 30 mm (5.9" x 3.2" x 1.2")				
<b>Weight :</b>	323 grams (11.4 oz) including battery				
<b>Options :</b>	Computer software and cable available				
<b>Certifications :</b>	CE Certified: Emissions: EN 55011:98 + A2 (Class B emissions limits); EN 61326: 06 (Class B) RF Emissions Immunity: EN 61326: 06 (Annex C) Portable Test and Measurement Equipment; EN 61000-4-2: 95 (ESD); EN 61000-4-3: 97 RoHS Compliant; Meets WEEE standards				

\*Specifications subject to change without notice.

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