

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 readings in your choice of $\mu\text{Sv/hr}$, mR/hr , 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 the user to the presence of harmful levels of nuclear radiation
- Improves safety in the laboratory and in the field
- Automatically compensates for GM tube dead time
- Will not jam in high radiation fields
- CE Certified, RoHS Compliant & Meets WEEE standards

Specifications

- **Sensor:** Halogen-quenched Geiger-Mueller tube. Effective diameter 1.75" (45 mm). Mica window density 1.5-2.0 mg/cm^2
- **Display:** 4-digit liquid crystal display with mode indicators
- **Accuracy:** $\pm 10\%$ typical; $\pm 15\%$ maximum
- **Alert:** $\mu\text{Sv/hr}$: 0 to 500; mR/hr : 0 to 50; CPM: 0 to 160,000; Beeper sounds the alert
- **Anti-Saturation:** Readout holds at full scale in fields up to 100 times the maximum reading
- **Audio:** Beeper chirps with each radiation event (can be muted)

- **Averaging Periods:** 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.
- **Certifications:** 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, and ISO 9001:2001 & ISO 14001 Count Light: Red LED flashes with each count
- **Detector:** Halogen-quenched Geiger-Mueller tube. Effective diameter 1.75" (45 mm). Mica window density 1.5-2.0 mg/cm² Detects Alpha, Beta, Gamma, and X-radiation
- **Efficiency:** For 4 pi at contact Beta C-14 (49 keV avg. 156 keV max.): 5.3% Bi-210 (390 keV avg. 1.2 MeV max.): 32% Sr-90 (546 keV and 2.3 MeV): 38% P-32 (693 keV avg. 1.7 MeV max.): 33%
- **Alpha Am-241 (5.5 MeV):** 18%
- **Gamma Sensitivity:** 3500 CPM/mR/hr referenced to Cs-137 Smallest detectable level for I-125 is .02 mCi at contact Manual: IMI Inspector Alert™ V2 Surface Contamination Meter
- **Operating Range:** μSv/hr: .01 to 1,100 mR/hr: .001 to 110 CPM: 0 to 350,000 CPS: 0 to 5,000 Total: 1 to 9,999,000 counts
- **Ports:** 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.
- **Power:** One 9-volt alkaline battery; battery life is average 2,000 hours typical, 700 hours minimum at normal background radiation levels at sea level. Battery life decreases as radiation level rises.
- **Size:** 150 x 80 x 30 mm (5.9" × 3.2" × 1.2") Temperature Range: -20° to +50° C , -4° to +122° F
- **Timer:** Can set sampling periods of 1 minute to 40 hours.
- **Weight:** 323 grams (11.4 oz) including battery - See more at:

Specifications subject to change without notice.

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