

Inspector Alert Handheld Surface Contamination Meter

The Inspector Alert 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 mR/hr, CPM, CPS, or $\mu\text{S}/\text{hr}$. The Total/Timer feature allows timed readings from one minute to 24 hours for precise measurement of low level contamination. An audible alert sounds when the radiation reaches a user-adjustable level.

- Quickly alerts first responders 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
- Meets CE certification requirements for Europe



Specifications:

Detector: Halogen-quenched Geiger-Mueller tube. Effective diameter 1.75" (45 mm). Mica window density 1.5-2.0 mg/cm².

Display: 4-digit liquid crystal display with mode indicators

Operating Range:

mR/hr: .001 to 100.0

CPM: 0 to 350,000

Total: 1 to 9,999,000 counts

$\mu\text{Sv}/\text{hr}$: .01 to 1,000

CPS: 0 to 5,000



Plus/Set/Minus Adjustments for Mode, Timer, Calibration Tube Center Indicator

EZTECH
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Gamma Sensitivity: 3500 CPM/mR/hr referenced to Cs-137

Smallest detectable level for I-125 is .02 μ Ci at contact

Efficiency: For 4 pi geometry 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%

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. User can select fast 3-second averaging period

Timer: Can set 1-10 minute sampling periods in one-minute increments, 10-50 minute sampling periods in 10-minute increments, and 1-24 hour sampling periods in 1-hour increments

Alert: Beeper sounds the alert

User-adjustable alert level is set using three buttons

Accuracy: $\pm 15\%$ up to 50 mR/hr; $\pm 20\%$ up to 100 mR/hr

Anti-Saturation: Readout holds at full scale in fields up to 100 times the maximum reading

Temperature Range: -20° to $+50^{\circ}$ C , -4° to $+122^{\circ}$ F

Power: One 9-volt alkaline battery; battery life is average 2160 hours at normal background, average 625 hours at 1 mR/hr with beeper off

Size: 150 x 80 x 30 mm (5.9" x 3.2" x 1.2")

Weight: 323 grams (11.4 oz) including battery

I/O Ports: Dual miniature jack for CMOS or TTL devices, sending counts to computer or data logger. Submini jack for electronic calibration.

Count Light: Red LED flashes with each radiation event

Audio: Beeper beeps with each radiation event; can be muted

Options: Wipe test plate

Specifications subject to change without notice.