

Inspector Handheld Digital Radiation Alert[®] Detector

The Inspector is a small, handheld, microprocessor-based instrument which offers excellent sensitivity to low levels of alpha, beta, gamma, and x-rays. The digital readout is displayed with a red count light and a beeper sounds with each count detected. Other features include an adjustable timer, external calibration controls and adjustable alert.



INSP Inspector+ Survey Meter with Internal GM Probe
XTR-BOOT XTREME Protective Boot for Inspector
XTR-BOOT-Y XTREME Boot Yellow Nylon Carrying Case
SEI-WP Wipe Test Plate for Inspector+ only
SEI-RPC Rugged, Waterproof Protective Case

Specifications

Detector: Internal Halogen-quenched, uncompensated GM tube with thin mica window, 1.4-2.0 mg/cm² areal density. Effective diameter of window is 45 mm (1.75 in.). Radiation symbol on front label marks the center of the detector.

Display: 4 digit liquid crystal display with indicators.

Averaging Periods: Display will update every 3 seconds. At low background levels, the update is the moving average for the past 30-second time period. The timed period for the moving average decreases as the radiation level increases.

Energy Sensitivity: Detects Alpha down to 2 MeV. Detects Beta down to .16 MeV; typical detection efficiency at 1 MeV is approx. 25%. Detects Gamma down to 10 KeV through the end window. 3340 CPM/mR/hr (Cs137). Smallest detectable level for I125 is .02 μ Ci at contact.

Operating Range: mR/hr - .001 (1 μ R) to 100 CPM - 0 to 350,000; μ Sv/hr - .01 to 1000 CPS - 0 to 5000; Total/ Timer - 1 to 9,999,000 counts

Accuracy: mR/hr \pm 10% typical (NIST), \pm 15% max 0-100; μ Sv/hr \pm 10% typical (NIST), \pm 15% max - 01 - 1000; CPM \pm 10% typical (NIST), \pm 15% max 0-350,000 (Referenced to Cs-137)

Alert Set Range: mR/hr .001 - 50 and CPM 1 - 160,000. 70db @ 1m.

Count Light: Red LED flashes with each radiation event.

Audio Indicator: Internally mounted beeper (can be switched off for silent operation)

Outputs: Dual miniature jack drives CMOS or TTL devices: count to computer or datalogger.

Submini jack input allows for electronic calibration

Anti-Saturation: Meter will hold at full scale in fields as high as 100 times the maximum reading.

Power Requirements: One 9-volt alkaline battery. Battery life is approx. 2160 hours at normal background.

Temperature Range: -10°C to 50°C (14°F to 122°F)

Weight: Inspector: 273 grams (9.6 oz.) without battery.

Size: 150 x 80 x 30 mm (5.9 x 3.1 x 1.2 in.).

CE Certification

Options: Observer Software, Xtreme Boot, Waterproof Case (Gamma & X-Ray Only), & Wipe

