

Inspector+ & Inspector EXP+

Now with a settable alert, 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 a settable alert.

Specifications:

Detector: Inspector+ (Internal tube):
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.

Detector: Inspector+ EXP (External probe)
RAP-RS1 Probe:
Same GM tube as Inspector+. Anodized aluminum housing with coated, black foam grip.
500-volt power supply is in the probe head.
Size- Approx. length: 22.2 cm (8.75 in.) Diameter: 7 cm (2.75 in.)
Connector - Amphenol tuchel connectors

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.



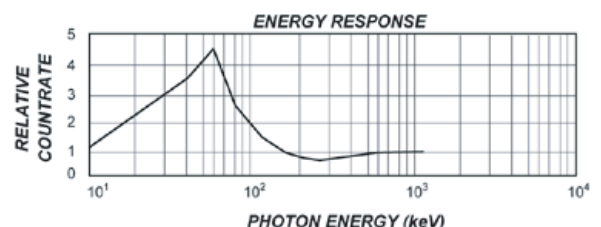
Inspector EXP+

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

Accuracy:
mR/hr +/- 10%- 0 to 100
μSv/hr +/- 10% 01 - 1000
CPM +/- 10% 0 to 350,000
(Referenced to Cs-137)

Sensitivity to Common Isotopes: Typical GM tube efficiency for 4 pi geometry at contact.

Beta Isotopes	Energy	Efficiency
C-14	49 keV Avg. 156 keV	5.3%
Bi-210	390 keV Avg. 1.2 MeV Max.	32%
Sr(Y)-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%



**RADIATION
A.L.E.R.T.**
QUALITY HANDHELD DETECTORS

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

Gamma Sensitivity: 3500 CPM/mR/hr referenced to Cs-137. Smallest detectable level for I-125 is .02 μ Ci at contact.

Timer: Can set 1 minute sampling periods from 1 to 10 minutes. 10 minute sampling periods 10- 60 minutes. 1 hour sampling periods from 1 to 24 hours.

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 min. 2160 hours at normal background radiation levels. 625 hrs at 1 mR/hr.

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

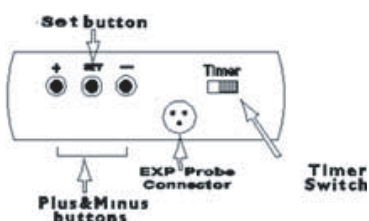
Weight:

Inspector: 301.4 grams (10.6 oz.) without battery.

Inspector EXP: 420 grams (1 lb. 15.6 oz.) without battery.

Size: 150 x 80 x 30 mm (5.9 x 3.3 x 1.2 in.).

Utility Menu: The Utility Menu offers several options accessible by holding down the + button while turning the instrument on.



3 second (fast response)
Switches from mR/hr and CPM to μ Sv/hr and CPS
Reset the cal factor to 100.
Probe adjustment settings.
Adjust the CAL factor.
Reset all setting to original factory setting (default).



Inspector⁺

Includes: Carrying Case, Protective Case, Cable for Inspector+ EXP: 42-inch Beldon 9853 with Amphenol 31226 twinax.

Options: Observer Software, Ruggedized Case, Stand and Wipe Test Plate.

Warranty: 90 day Warranty on GM Detector, 1 year limited warranty and CE mark.

WipeTest Plate

(patent #5,936,246)

The stainless steel WipeTest Plate slides easily onto the Inspector+ positioning the depression and wipe directly in front of the GM tube window at a fixed distance of 1 centimeter. The WipeTest plate is removable for general surveying or decontamination. It can also be used for protecting the GM from damage and the instrument from being contaminated while the Inspector is not in use.



Ruggedized Inspector Case

Ideal for military applications, this is the ultimate case for protection from severe weather, drops, and more. Made from a nearly indestructible material, it has been designed to house your Inspector+ in a dustproof, air proof, and watertight case while still providing you with access to your Inspector+ for data, regardless of the conditions (Gamma detection only).