

## The Inspector EXP External Probe Surface Contamination Monitor

The Inspector EXP is designed to meet the requirements of emergency response personnel. It has the same valuable features, small size, and quality of the Inspector, but instead of the built-in detector, it has the added versatility of an external probe.

The carrying case has a clear window panel that provides a full view of the readout and count light and access to the switches. It includes convenient hand straps and a belt loop for carrying the instrument and a small pocket for a check source.

The probe can be attached to the carrying case for one-handed operation if desired. The protective probe cover folds easily out of the way during one-handed operation.

### Specifications:

Same as Inspector (below) except for external probe:

RAP-RS1 Probe:

**Detector:** Same as Inspector Alert (below)

**Enclosure:** Anodized aluminum housing with coated, black foam grip

**Power supply:** 500-volt, in the probe head

**Size:** Approx. length: 22.2 cm (8.75 in.) Diameter: 7 cm (2.75 in.)

**Connector:** Amphenol tuchel connectors

Inspector specifications:

**Detector:**

Halogen-quenched Geiger-Mueller tube.

Effective diameter 1.75" (45 mm).

Mica window density 1.5-2.0 mg/cm<sup>2</sup>.



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**Display:** 4-digit liquid crystal display with mode indicators

**Operating Range:**

mR/hr: .001 to 100.0

CPM: 0 to 300,000

mSv/hr: .01 to 1,000

CPS: 0 to 5,000

Total: 1 to 9,999,000 counts

**Gamma Sensitivity:**

3500 CPM/mR/hr referenced to Cs-137

Smallest detectable level for I-125 is .02 mCi 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. Averaging period decreases as 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:**  $-20^{\circ}$  to  $+50^{\circ}$  C,  $-4^{\circ}$  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:** 350 grams (11.4 oz) including battery

**I/O Ports:** Stereo 3.5 mm jack for CMOS or TTL devices  $\blacklozenge$  sends counts to computer or data logger. Mono 2.5 mm jack provides electronic calibration input.

**Count Light:** Red LED flashes with each radiation event

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

*Specifications subject to change without notice.*