

# 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.

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# Specifications:

Same as Inspector (below) except for external probe:

## RAP-RS1 Probe:

**Detector:** Same as Inspector (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 31226 twinax 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>

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

**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.

**Operating Range:** mR/hr: .001 to 100.0; CPM: 0 to 300,000; Total: 1 to 9,999,000 counts;  $\mu$ Sv/hr: .01 to 1,000; CPS: 0 to 5,000

**Efficiency:** Sr-90 (546KeV, 2.3MeV  $\beta$  max): approx. 75%; C-14 (156KeV  $\beta$  max): approx. 11%;

Bi-210 (1.2 MeV  $\beta$  max): approx. 64%; Am-241 (5.5 MeV  $\alpha$ ): approx. 36%

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

**Accuracy:**  $\pm$  15%

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

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

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

**Outputs:** Dual miniature jack drives CMOS or TTL devices, sending counts to computer or data logger. Submini jack allows for electronic calibration.

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

**Temperature Range:** -10° to +50° C , 14° to 122° F

**Power:** One 9-volt alkaline battery; battery life is minimum 200 hours at normal background, minimum 24 hours at 1 mR/hr

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

**Weight:** 350 grams (12.5 oz) with battery

**Options:** Wipe Test Plate; External scintillation probe

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