

RADIATION ALERT™

Ranger EXP

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The Ranger EXP offers maximum performance in a lightweight, rugged solution for using your survey meter in the field. The Ranger EXP is designed specifically for individuals operating in tough environments. The small, handheld unit 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, selectable alert. The free Observer USB Software allows you to set alarms, select preferences, and download your collected data. The Bluetooth and included Observer BLE for Android enables saving, sharing, and automation of surveys and RadResponder compatibility.

Detector

RAP-RS2 Probe - External 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.).

Operating Range

mR/hr - .001 to 100 CPM - 0 to 350,000
 μSv/hr - .01 to 1000 CPS - 0 to 5,000
 Timed Count - 1 to 9,999K (9,999,000) counts

Accuracy

(Referenced to Cs137) Typically ±15% from factory, ±10% with NIST Source Calibration

Energy Sensitivity

3340 CPM/mR/hr referenced to Cs¹³⁷

- 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 tube window.
- Smallest detectable level for I¹²⁵ is .02 μCi at contact.

Display

Graphic LCD with Backlight

Alert Set Range

mR/hr .001 - 100 and CPM 1 - 350,000

Count Light

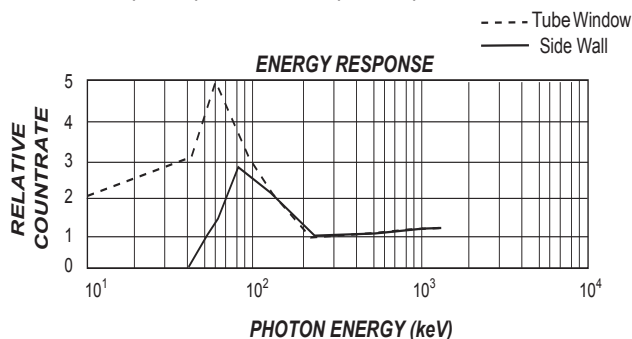
Red LED flashes with each radiation event

Audio Indicator

Internally mounted beeper. 70db @ 1m.
 (Can be switched off for silent operation.)

Built-In Efficiencies

³⁵Sulfur (S35), ⁹⁰Strontium (Sr/y90), ¹³⁷Cesium (Cs137), ³²Phosphorus (P32), ¹⁴Carbon (C14), ¹³¹Iodine (I131), ⁶⁰Cobalt (Co60), and Alpha



SE INTERNATIONAL, INC.



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RADIATION ALERT™ RangerEXP

Size

140 X 68 X 33 mm (5.5 X 2.7 X 1.3 in.)

Probe: 260 X 70 X 25 mm (10.25 X 2.75 X 1 in)

Outputs

USB and Bluetooth 4.1 with included Observer Software Family for PC and Android OS.

Anti-Saturation

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

Power Requirements

Two AA alkaline batteries. Approx. 800 hrs @ background.

Includes

RAP-RS2 External GM Probe, 3ft BNC Cable, Carrying Case, Xtreme Boot, Stand, Batteries, Mini-USB Cable, Observer USB Software Download , Certificate of Conformance

Options

NIST Calibration

Limited Warranty

1 year limited warranty



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