

# RADIATION ALERT™

## Ranger EXP

a by x

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. With the free Observer USB Software Family, you can set alarms, choose preferences, and download your collected data from the internal memory for easy reporting!



### Detector

RAP-RS2 Probe - External Halogen-quenched, uncompensated GM tube with thin mica window, 1.4-2.0 mg/cm<sup>2</sup> areal density. Effective diameter of window is 45 mm (1.75 in.).

### Operating Range

mR/hr - .001 (1µR) to 100 CPM - 0 to 350,000  
 µSv/hr - .01 to 1000 CPS - 0 to 5000  
 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 Cs<sup>137</sup>

- 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 I<sup>125</sup> is .02 µCi at contact.

### Display

Graphic LCD with Backlight

### Alert Set Range

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

### Count Light

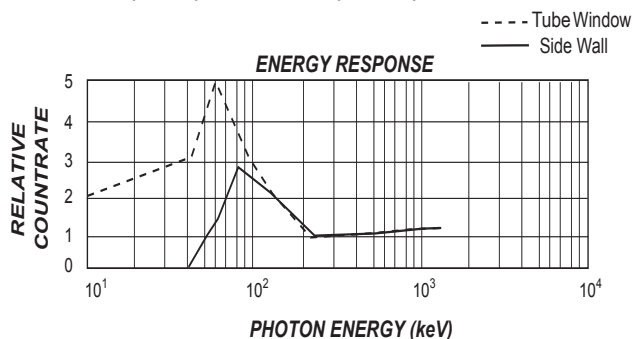
Red LED flashes with each radiation event

### Audio Indicator

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

### Built-In Efficiencies

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



# SE INTERNATIONAL, INC.



P.O. Box 39, 436 Farm Rd. Summertown, TN 38483

1-800-293-5759

Fax: 1-931-964-3564

www.seintl.com

radiationinfo@seintl.com



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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 for use with Observer USB Software Family

## 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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