

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, and with the free Observer USB Software Family, you can download your collected data, set alarms, and calibrate your meter!



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 (1µR) to 100 CPM - 0 to 350,000
µSv/hr - .01 to 1000 CPS - 0 to 5000
Total/Timer - 1 to 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 detector 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

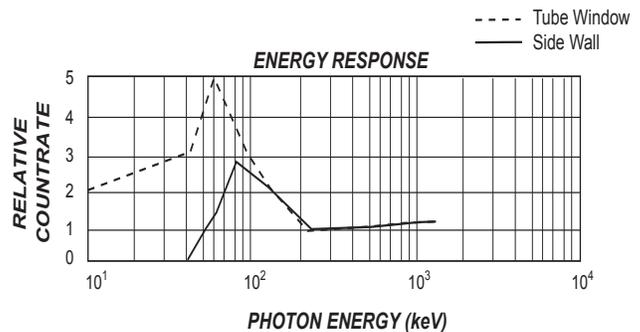
Red LED flashes with each radiation event

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)

Weight

20 oz (1.25 lbs.)

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 (included)

Includes

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

Limited Warranty

1 year limited warranty



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