

RADIATION ALERT®

Ranger

a β γ x



The Ranger is a small, handheld, digital survey meter which offers excellent sensitivity to low levels of alpha, beta, gamma, and x-rays. It has built in efficiencies for common isotopes to calculate activity in Bq and DPM. It has a backlit display and a count light and a beeper that sounds with each count detected. Other features include selectable alert levels, an adjustable timer, and an optional wipe test plate. Internal memory.

Free Observer USB Software
Free Observer BLE Software For Use With The
Optional Bluetooth Module

Detector

Internal Halogen-quenched, uncompensated GM tube with thin mica window, 1.4-2.0 mg/cm² areal density. Effective diameter of window is 45 mm (1.77 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



Detector Window

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

Built-In Efficiencies

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

Accuracy

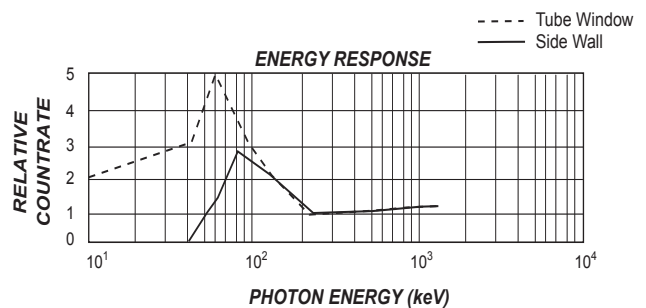
(Referenced to Cs137) Typically ±15% from factory, ±10% with NIST Source Calibration

Anti-Saturation

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

Averaging Periods

Display will update every 3 seconds. At low background levels, the update is the moving average for the past 30-second time period. The timed period for the moving average decreases as the radiation level increases.



S.E. INTERNATIONAL, INC.

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RADIATION ALERT[®] Ranger

Display

Backlit Graphic LCD with Backlight

Count Light

Red LED flashes with each radiation event

Alert Set Range

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

Alarm Indicator

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

Outputs

Bluetooth (Optional) BLE for Observer BLE

(RadResponder Ready)

USB for use with Observer USB Software Family

Size

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

Power Requirements

Two AA alkaline batteries

Temperature Range

-10° to +50°C (14° to 122°F)

Includes

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

Options

Wipe Test Plate, Swipes, NIST Calibration

*Bluetooth module available for use with Obsever
BLE software and Rad Responder*

Limited Warranty

1 year limited



Shown with ruggedized protective boot



Optional Wipe Test Plate Shown



Lanyard, Ruggedized Boot, Detector
Cover, USB Cable and Stand Included

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