

RADIATION ALERT[®] Ranger α 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

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



Detector Window

Accuracy

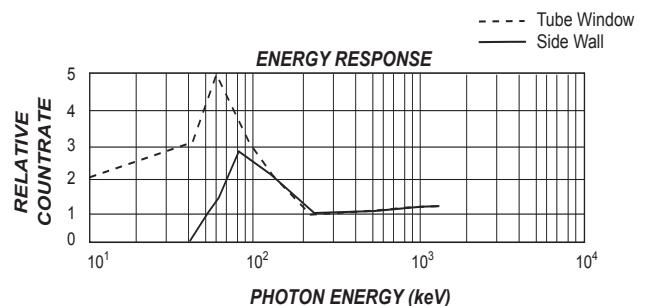
(Referenced to Cs137) Typically ±15% from factory, ±10% with NIST Source Calibration

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.

excellence in radiation detection - α β γ x

RADIATION ALERT[®]

1.931.964.3561

www.seintl.com

radiationinfo@seintl.com



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 CBRN 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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