

RADIATION ALERT™

Ranger

a β γ x



The Ranger is a small, handheld, digital NORM survey meter with 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 and the free Observer USB Software allow you to download your data, set computer alarms, and calibrate your instrument! The Bluetooth and Observer BLE enables saving, sharing, and automation of surveys and RadResponder compatibility.

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.).

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.

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

Temperature Range

-10° to 50°

Humidity Range

10% to 70% Non-Condensing

Accuracy

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

Size

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

Weight

291g (0.64 lbs.)

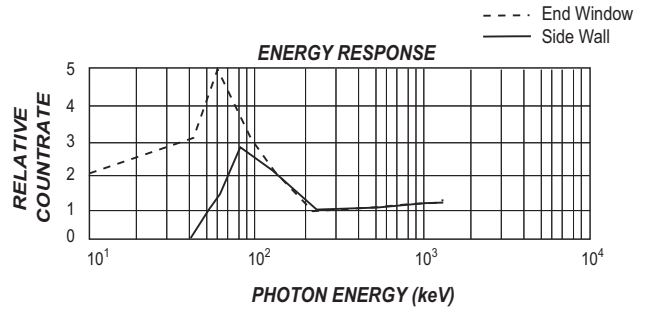
Energy Sensitivity

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



SE INTERNATIONAL INC



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RADIATION
 A • L • E • R • T

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 BLE for Observer BLE (RadResponder Ready)
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

USB or Two (2) AA alkaline batteries

Includes

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

Options

Wipe Test Plate, Swipes, NIST Calibration

Limited Warranty

1 year limited



Optional Wipe Test Plate Shown



Shown with ruggedized protective boot



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



Detector Window and AA
Battery Door on Back

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