

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

 $\begin{array}{ll} mR/hr - .001 \ (1 \mu R) \ to \ 100 & CPM - 0 \ to \ 350,000 \\ \mu Sv/hr - .01 \ to \ 1000 & CPS - 0 \ to \ 5000 \\ Total/ \ Timer - 1 \ to \ 9,999,000 \ counts \end{array}$

Accuracy

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

Size

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

Energy Sensitivity

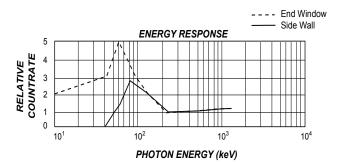
3340 CPM/mR/hr referenced to Cs¹³⁷

mR/t

- 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 I^{125} 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



Radiation ALERT"

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

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

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

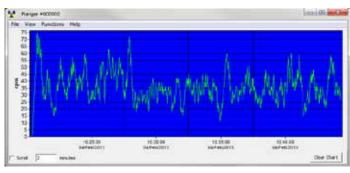
1 year limited





View of Back





USB Observer Software collects data stored in the internal memory of The Radiation Alert Ranger



Wipe Test Plate