

# RADIATION ALERT™ Ranger

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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/cm<sup>2</sup> 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

## 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.)

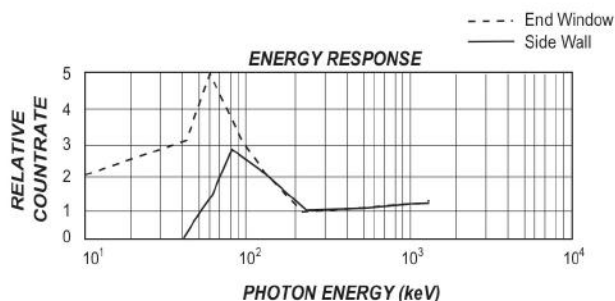
## Energy Sensitivity

3340 CPM/mR/hr referenced to Cs<sup>137</sup>

- 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<sup>125</sup> is .02 µCi at contact.

## Built-In Efficiencies

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



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