



The Abacus is a handheld, digital radiation detection device that enables you to complete your surveys automatically with your Abacus and a Windows Mobile™, Palm™ Pilot or Windows™ Computer. Not only does it offer excellent sensitivity to low levels of alpha, gamma, and x-rays, but the internal "guard" detector automatically performs gamma subtraction from the "pancake" detector for unprecedented beta sensitivity. The software can display a variety of units for a wide array of applications, take timed counts, control the audio of each tube, and save your surveys for easy analysis and sharing, all wirelessly with Bluetooth® right to your computer! The Abacus also has a red count light, a beeper sound and selectable alarm thresholds for quick assessments.

Specifications

Detector

Internal tube 1 - Halogen-quenched, uncompensated GM pancake tube with thin mica window, 1.4-2.0 mg/cm² areal density. Effective diameter of window is 45 mm (1.75 in.).
Internal tube 2 - Halogen-quenched, uncompensated thin wall beta-gamma GM peanut tube Radiation symbol on front and top labels mark the center of the detectors.

Display

Windows Mobile™ PocketPCs, Palm™ Pilots or Windows™ based laptop or desktop computer.

Exposure Rate

μR/h - 0 to 2,000,000 μR/h
 mR/h - 0 to 2,000 mR/h
 μSv/h - 0 to 20,000 μSv/h
 Count Rate:
 cpm - 0 to 750,000 cpm
 cps - 0 to 12,500 cps

Sample Counting:

Total counts - >99,999,999,999

Accumulated Dose
 1.8E308

Total Time
 Unlimited

Accuracy

±15% over the entire operating range

Alert Set Range

mR/hr .001 - 50 and CPM 1 - 160,000

Gamma Sensitivity

7.5 CPS/mR/hr referenced to Co60. Smallest detectable level for I-125 is .02 μCi at contact.

Timer

Total Count timer from 1 -99,999,999,999 seconds.

Count Light

Red LED and internal beeper (can be switched off for silent operation)

Outputs

Bluetooth Wireless Serial Connection.

Anti-Saturation:

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

Power Requirements

Two (2) AA Batteries

Temperature Range

-10°C to 50°C (14°F to 122°F).

Weight

337.4 grams (11.9 oz.) with battery.

Size

332.7 x 63.5 x 35.6 mm (13.1 x 2.5 x 1.4in.).

Warranty

90 day Warranty on GM Detector, 1 year limited

