

Formerly the SEI Inspector USB, The Ranger offers maximum performance in a lightweight, rugged solution for using your survey meter at the facility or in the field. Though designed for industrial environments, it has all of the features you've come to love in the lab. The Ranger is a small, handheld, microprocessor-based instrument which offers excellent sensitivity to low levels of alpha, beta, gamma, and x-rays. The digital readout is displayed with a red count light and a beeper sounds with each count detected. Other features include an adjustable timer, selectable alert, and with the free Observer USB Software Family, you can download your data from the internal memory, set computer alarms, and calibrate your instrument!



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.). Radiation symbol on front label marks the center of the detector.

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 (1 μ R) to 100 CPM - 0 to 350,000 μ Sv/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 (3.5 X 2.7 X 1.3 in.)

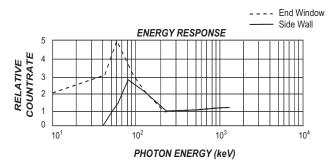
Energy Sensitivity

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.
- Detects Gamma down to 10 KeV through the end window. Smallest detectable level for I¹²⁵ is .02 μCi at contact.

Built-In Efficiencies

⁵Sulfur (S35), ⁹⁰Strontium (Sr/y90), ¹³⁷Cesium (Cs137), ³²Phosphorus (P32), ¹⁴Carbon (C14), ¹³¹Iodine (I131), ⁶⁰Cobalt (Co60), and Alpha



semat@sematequipment.com

Via Aurelia, 884 - 00165 ROMA Tel. (0039)-06-6628187 r.a. Fax (0039)-06-66000568



www.sematequipment.com

P. IVA 01969661006 C.F. 08139450582 Iscr. Trib. ROMA 11587/87 C.C.I.A.A. ROMA 645981



Display

Backlit Graphic LCD with Backlight

Count Light

Red LED flashes with each radiation event.

Alert Set Range

mR/hr .001 - 50 and CPM 1 - 160,000. 70db @ 1m.

Alarm Indicator

Internally mounted beeper

(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

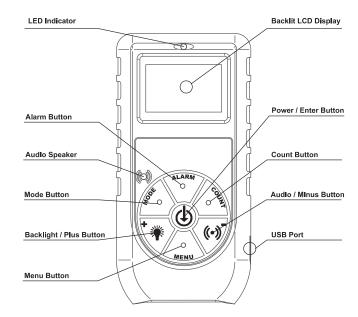
Carrying Case, Xtreme Boot, Stand, Mini-USB Cable, Observer USB Software Download, Certificate of Conformance

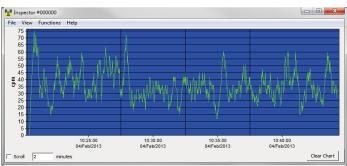
Options

Wipe Test Plate, NIST Calibration

Limited Warranty

1 year limited





USB Observer Software collects data stored in the internal memory of The SEI InspectorUSB



Ruggedized boot and Stand with every unit



Wipe Test Plate

semat@sematequipment.com



www.sematequipment.com