The Inspector EXP was designed to meet the requirements of emergency response personnel. New added features include a backlit display, built-in efficiencies for common isotopes, on-board memory, USB, and free Observer USB Software! It delivers the same quality you’ve come to expect from the Inspector USB, but instead of the built-in detector, it has the added versatility of an external probe. The carrying case has a clear window panel providing full view of the readout, count light, access to the switches, and a convenient belt loop for carrying the instrument.

Detector
RAP-RS1 Probe - External Halogen-quenched, uncompensated GM tube with thin mica window, 1.4-2.0 mg/cm² areal density. Effective diameter of window is 45 mm (1.75 in.). Radiation symbol on probe marks the center of the detector.

Operating Range
- mR/hr - .001 (1µR) to 100
- µSv/hr - .01 to 1000
- CPM - 0 to 350,000
- CPS - 0 to 5000
- Total/Timer - 1 to 9,999,000 counts

Accuracy (Cs¹³⁷)
- mR/hr ±10% typical (NIST), ±15% max - 0 to 100
- µSv/hr ±10% typical (NIST), ±15% max - 01 - 1000
- CPM ±10% typical (NIST), ±15% max - 0 to 350,000

Energy Sensitivity
Dectects 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 detector window. 3340 CPM/mR/hr (Cs¹³⁷). 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
Display
Backlit 4 digit liquid crystal display with indicators.

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

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.

Count Light
Red LED flashes with each radiation event.

Audio Indicator
Internally mounted beeper (can be switched off for silent operation)

Outputs
Dual miniature jack drives CMOS or TTL devices: count to computer or datalogger.
USB for use with Observer USB Software for PCs

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

Power Requirements
One 9-volt alkaline battery. Battery life is approx. 1200 hours at normal background.

Temperature Range
-10º to 50ºC (14º to 122ºF)

Weight
635 g (22.4 oz.)

Size
150 x 80 x 30 mm (5.9 x 3.1 x 1.2 in.).
Probe: 260 X 70 X 38 mm (10.25 X 2.75 X 1.5 in)

Includes
Carrying Case, CE Certification, BNC Cable for Probe, Mini-USB Cable, Observer USB Software Download

Limited Warranty
1 year limited warranty

Carrying case enables one handed operation of The Inspector EXP

The new slim line RAP-RS1 Probe is light weight with rugged construction