Inspector usb

Handheld Radiation Alert Detector

detection
radiation

Inspector USB Handheld Digital Radiation Alert® Detector

The Inspector and Inspector Plus are now The Inspector USB!! Now with USB and the included Observer USB Software, you can download your data from the internal memory, set computer alarms, and calibrate your instrument! The Inspector USB Handheld Digital Radiation Alert® Detector is a small, microprocessor based survey meter which offers excellent sensitivity to low levels of alpha, beta, gamma, x-rays, and built in efficiencies for common isotopes to calculate activity in Bequerels and DPM.
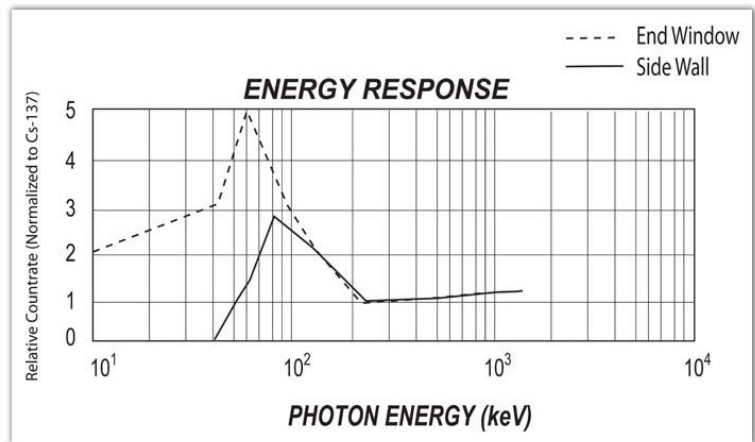
SPECIFICATIONS

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

Averaging Periods

Display updates every 3 seconds. At low background levels, the update is the average for the past 30-second time period. The timed period for the average decreases as the radiation level increases.

Display

Backlit 4 digit liquid crystal display with indicators. Display updates every 3 seconds.

ENERGY RESPONSE

- - - - End Window
—— Side Wall

Relative Countrate (Normalized to Cs-137)

PHOTON ENERGY (keV)

- LCD Panel
- Tube Center
- Count Light
- Mode Switch
- Power/Audio
- Cal Input
- Output

Energy Sensitivity
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. 3340 CPM/mR/hr (Cs137). Smallest detectable level for I125 is .02 µCi at contact.

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

Alert Set Range
mR/hr .001 - 50 and CPM 1 - 160,000. 70db @ 1m.ulsating beeper sounds the alert. Adjustable alert levels are used for mR/hr / CPM, and µSv/hr / CPS. Alarm will sound when in Timer Mode when set alarm threshold is reached.

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 and counts to computer or datalogger. USB for use with Observer USB Software for PCs

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

Power Requirements
One 9-volt alkaline battery. Battery life is approx. 2000 hours at normal background.

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

Weight
Inspector: 273 g (9.6 oz.) without battery.

Size
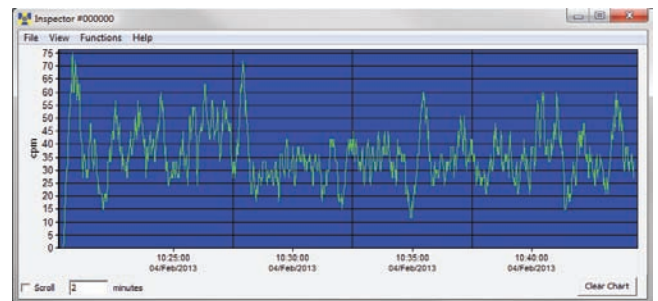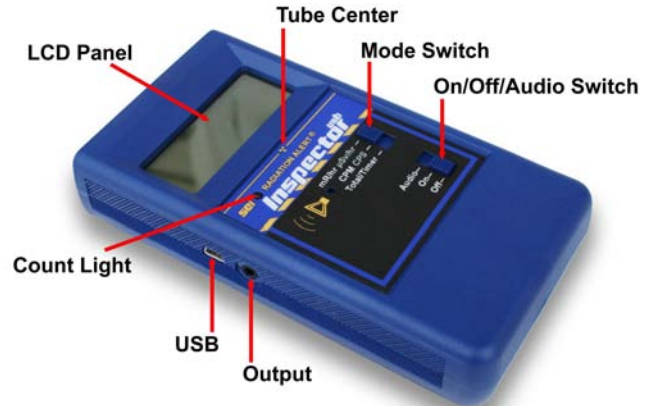150 x 80 x 30 mm (5.9 x 3.1 x 1.2 in.)

Includes
Carrying Case, Certification of Conformance, Observer USB Software

Options
Xtreme Boot, Wipe Test Plate, & Stand

Limited Warranty
1 year limited warranty. 90 day limited warranty on GM Tube

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

Wipe Test Plate Available

The Xtreme Boot option provides easy access to the buttons.

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