

INSPECTOR

SURVEY METER

Low-level radiation sensitivity in a compact, hand-held unit

- *Monitors alpha, beta, gamma, and x-ray radiation*
- *Range: 0-300,000 cpm*
- *4-digit LCD readout*
- *Red LED count light*
- *Audible beeper (can be switched off)*
- *External calibration controls*
- *Adjustable timer with:*
 - 1-minute sampling periods from 1 to 10 minutes*
 - 10-minute sampling periods from 10 to 60 minutes*
 - 1-hour sampling periods from 1 to 24 hours*
- *Operates 200 hours on 9V battery*
- *Wipe Test Plate positions wipe directly in front of detector at 1 cm distance. Protects GM from damage/contamination when meter is not in use*

The Inspector is a microprocessor controlled radiation measuring 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 audible beep, providing instant indications of the radiation level. Other benefits include an adjustable timer and external calibration controls.



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INSPECTOR SURVEY METER

SPECIFICATIONS:

Detector: Halogen-quenched uncompensated GM tube with thin mica window, 1.4-2.0 mg/cm² area density.

Window: 1.75" (45 mm) effective diameter

Display: 4-digit liquid crystal display with indicators.

Averaging Periods: Display will update every 3 seconds. At low back-ground levels, the update is the moving average for the past 30-second time period. Time period for moving average decreases as radiation level increases.

Gamma Sensitivity: 3500 cpm/mR/hr (referenced to Cs-137). Smallest detectable level for I-125 is .02 µCi at contact.

Operating Range:

mR/hr - .001 (1µR) to 100 mR/hr

µSv/hr - .01 to 1000

CPM - 0 to 300,000

CPS - 0 to 5000

Total/ Timer - 1 to 9,999,000 counts

Accuracy (Referenced to Cs-137):

mR/hr ± 15% from 0 to 30 mR/hr, ± 20% from 30 to 50 mR/hr.

CPM ± 15% from 0 to 100,000 cpm, ± 20% from 100,000 to 300,000 cpm.

Timer: Can set 1-minute sampling periods from 1 to 10 minutes, 10-minute sampling periods from 10 to 60 minutes, 1-hour sampling periods from 1 to 24 hours.

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 for counting to computer or data logger. (Sub-mini jack input allows for electronic calibration.)

Utility Menu: Options accessed by holding down "+" button while turning instrument on: 3-second (fast response), switch from mR/hr and CPM to µSv/hr and CPS, reset cal factor to 100, adjust probe settings, adjust the CAL factor, reset all settings to original factory setting (default).

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

Power Requirements: (1) 9-volt alkaline battery.

Temperature Range: 14°F to 122°F (-10°C to +50°C)

Battery Life: Typically 200 hours at normal background radiation levels.

Dimensions: 5.9" h x 3.3" w x 1.2" d (15 x 8 x 3 cm)

Weight: 10.6 oz (300 grams) without battery

078-514 Inspector Survey Meter Shield:

Dimensions: 10.3" l x 4.8" w x 1.5" h (26 x 12 x 4 cm)

Construction: Steel, with lead lining in left and right side walls

Lead Shielding: 0.5" thick (1.3 cm) laterally

Weight: 7.8 lb (3.5 kg)



Inspector shown with optional sliding Wipe Test Plate.

Optional Shielded Holder (078-514)

Maintain full function of the Inspector Survey Meter while shielding it laterally to reduce the influence of background radiation. Constructed of steel with 0.5" thick lead lining built into left and right sides, the holder conveniently supports the Inspector while allowing full operation of the optional sliding wipe test plate -- without having to lift the meter. This accessory is especially suited for use in mobile units, or where the meter is frequently used for standardized procedures in a single location. The unit is supplied with strips of reclosable fastening material for affixing to countertops or other surfaces.

078-510 Survey Meter, Inspector \$595.00

078-513 Survey Meter, Inspector 695.00
Includes Wipe Test Plate and Adapter

Related:

078-514 Survey Meter Shield, Inspector..... 400.00
For 078-513

Prices subject to change without notice.

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