

Inspector

Handheld Surface Contamination Monitor

The Inspector measures alpha, beta, gamma and x-radiation using a 2-inch “pancake” GM detector with high sensitivity to common beta and alpha sources.

The easy-to-read digital display shows readings in your choice of mR/hr, CPM, CPS, or μ Sv/hr. The Total/Timer feature allows timed readings from one minute to 24 hours for precise measurement of low-level contamination.

- Improves safety in laboratories and in the field
- Automatically compensates for GM tube dead time
- Anti-saturation circuitry prevents jamming in high radiation fields
- Meets CE certification requirements for Europe
- Safety-first calibration feature can eliminate personnel exposure during calibration



**Homeland Security
Technologies**

Inspector

Handheld Surface Contamination Monitor



Plus/Minus adjustments for Mode, Timer, Calibration
Calibration Set

Specifications:

Detector:

Halogen-quenched Geiger-Mueller tube. Effective diameter 1.75" (45 mm). Mica window density 1.5-2.0 mg/cm².

Display:

4-digit liquid crystal display with mode indicators

Averaging Periods:

Display updates every 3 seconds, showing the average for the past 30 second time period at normal levels. The averaging period decreases as the radiation level increases. User can select fast 3-second averaging period.

Operating Range:

mR/hr: .001 to 100.0
CPM: 0 to 300,000
Total: 1 to 9,999,000 counts
µSv/hr: .01 to 1,000
CPS: 0 to 5,000

Efficiency:

Sr-90 (546 KeV, 2.3MeV βmax): approx. 75%
C-14 (156 KeV βmax): approx. 11%
Bi-210 (1.2 MeV βmax): approx. 64%
Am-241 (5.5 MeV α): approx. 36%

Sensitivity:

3500 CPM/mR/hr referenced to Cs-137

Accuracy:

±15% 0-50 mR/hr; ±20% 50-100 mR/hr

Timer:

Can set 1-10 minute sampling periods in 1-minute increments, 10-50 minute sampling periods in 10-minute increments, and 1-24 hour sampling periods in 1-hour increments

Count Light:

Red LED flashes with each radiation event

Audio:

Beeper beeps with each radiation event; can be muted

Outputs:

Dual miniature jack drives CMOS or TTL devices, sending counts to computer or data logger. Submini jack allows for electronic calibration.

Anti-Saturation:

Readout holds at full scale in fields up to 100 times the maximum reading

Temperature Range:

-10°C to 50°C (14°F to 122°F)

Power:

One 9-volt alkaline battery; battery life is minimum 200 hours at normal background, minimum 24 hours at 1 mR/hr

Size:

150 x 80 x 30 mm (5.9" x 3.2" x 1.2")

Weight:

350 grams (12.5 oz) with battery

Options:

Wipe Test Plate

Specifications subject to change without notice.

Made in the USA by International Medcom

For current price information, technical support, and ordering assistance, contact the Hach office or distributor serving your area. In the United States, contact: **HACH COMPANY** World Headquarters; Telephone: 800-604-3493 (970-669-3050 outside the USA); E-mail: orders@hach.com (intl@hach.com outside the USA)

On the web: www.hach.com