

## Inspector Digital G-M Count Rate Meter

The Inspector is a microprocessor-controlled radiation detection GM tube-based instrument offering good sensitivity, digital readout for accuracy and with a bar graph that indicates trends, an audible indication of changing radiation rates, and a user adjustable timer for sampling periods. The Inspector's small size and built-in pancake detector configuration makes it inconspicuous and non-intimidating when used in the presence of patients. In the laboratory, it conveniently checks for contamination of tabletops, clothing, equipment, etc. The microprocessor automatically compensates for GM tube deadtime in mR/h. One 9-Volt alkaline battery provides long battery life and reduces the chances of battery leakage.

### Features:

- ▶ Internal pancake-type GM detector
- ▶ Autoranging up to 100 mR/h
- ▶ 4-digit LCD and analog bar graph display
- ▶ Timed counting function with preset table sampling periods
- ▶ Anti-saturation circuitry
- ▶ Audio indicator and red count light

### Options:

- ▶ **Wipe Test Plate:** Stainless steel wipe test plate slides onto the Inspector for reproducible positioning of the wipe over GM tube window.
- ▶ **Model Inspector EXP:** Allows connecting external halogen quenched GM tube probe RAP-RS1. Designed for the requirements of emergency response personnel.



### Specifications

Detector:	halogen quenched GM tube
Window:	mica, 1.4 to 2 mg/cm <sup>2</sup> , eff. diameter of 45 mm (1.75 in)
Sensitivity:	3500 cpm/mR/h referenced to <sup>137</sup> Cs
Efficiency:	<sup>90</sup> Sr: 45% <sup>14</sup> C: 11%
Display:	4-digit LCD showing bar graph, units, tube dead center indicator, total/timer and battery low symbols
Averaging periods:	display updates every 3 seconds, at low levels the update is the moving average for the past 30 second time period. Moving average decreases as the radiation level increases.
Range:	autoranging, 0 - 300,000 cpm, 0.001 - 100 mR/h
Accuracy:	±15% up to 130,000 cpm, ±20% from 130,000 to 300,000 cpm, ±15% 0 to 50 mR/h, 20% 50 to 100 mR/h
Anti-saturation:	readout will hold at full scale in radiation fields of up to 100 x the maximum reading
Total-timer:	display shows total, or accumulated counts, starting when mode is activated
Audio:	internal beeper, minimum acoustic output at 10 cm is 80 dB, may be disabled by a switch
Input port:	subminiature jack allows for electronic calibration
Output port:	dual miniature jack drives CMOS or TTL devices; count to computer or data logger
Dimensions:	15 cm x 8 cm x 3 cm (5.9 in x 3.2 in x 1.2 in)
Weight:	225 g (8 oz) including the battery