

## Model MC1K Compact Survey Meter

The Model MC1K is a compact, hand-held GM radiation survey meter capable of detecting gamma and x-rays with a range of up to 1000 mR per hour. Its straightforward design, low cost, and convenient size make it ideal for many applications.

The internally-mounted detector is an energy-compensated GM tube for true dose rate indication of mR and mSv per hour down to 40 keV. The 1000 mR/h range meets the requirements for nuclear medicine departments. The easy-to-read analog meter provides convenient reading of radiation level values. A red count light and a built-in beeper provide the visual and audible indication of changing radiation rates while scanning an area for contamination.

Reliability, ruggedness and accuracy are not compromised by the MC1K's small size and affordability. In addition, it incorporates features of many higher priced instruments on the market. For that reason, the MC1K has found wide acceptance in hospitals, research labs, schools; by miners, geologists, hazmat teams, and in general industrial safety applications.

### Features:

- ▶ Internal energy compensated GM detector
- ▶ Four decade response up to 1 R/h
- ▶ Anti-saturation circuitry
- ▶ Audio indicator and red count light
- ▶ Exceptionally long battery life



### Specifications

Detector: .....	halogen-quenched, compensated GM tube
Energy sensitivity: .....	gamma and x-ray from 40 keV
Average background: .....	4 CPM
Visual indicator: .....	analog meter with dual scale reading, mR/h and m Sv/h
Meter scale: .....	1 mR/h, 0.01m Sv/h
Range multiplier: .....	x 1, x 10, x 100, x 1000
Maximum range: .....	1000 mR/h, 10 mSv/h
Accuracy: .....	±15% of full scale
Anti-saturation: .....	built-in circuitry forces meter to read full scale in fields as high as 100 times the maximum reading
Audio indicator: .....	internally-mounted beeper
Operating temperature: .....	-20° C to +50° C
Power: .....	one 9 V alkaline battery, NEDA 1604
Battery life: .....	up to 2000 hours of operation at normal background levels. Battery condition is shown on the meter.
Dimensions: .....	72 mm x 145 mm x 38 mm (2.8 in x 5.7 in x 1.5 in)
Weight: .....	188 g (6.4 oz)

### Accessories

62-103 .....	Check source, 10 µCi 137 Cs, embedded in a plastic disc
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