

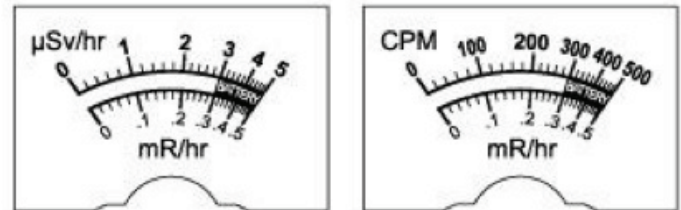
Monitor 4 and Monitor 4EC

Handheld Radiation Alert Detector

The M4 and M4EC are compact, ergonomic, general purpose survey meters capable of detecting alpha, beta, gamma, and x-rays over 3 selectable ranges. A red count light flashes and a beep sounds with each event detected. The Monitor 4EC offers a more linear reading for gamma and x-rays above 40 keV.

Specifications

- ▶ Display
 - Analog Meter holds full scale in fields as high as 100X maximum reading. CPM & mR/hr scale. Optional SI meter scale is available
- ▶ Energy Sensitivity
 - 1000 CPM/mR/hr (Cs-137). Monitor 4EC is the same as the Monitor M4, except the energy response for gamma and x-rays through the detector sidewall is flat within +61% or -26% over the range of 40 keV to 100 keV, and within +35% or -17% over the range of 100 keV to 1.3 MeV.
- ▶ Monitor M4
 - Detector: halogen quenched uncompensated GM tube with thin mica window 1.5–2.0 mg/cm² thick.
 - Alpha: detects alpha down to 2.5 MeV; typical detection efficiency at 3.6 MeV is greater than 80%.
 - Beta: Both Models detect beta at 50 keV with typical 35% efficiency and beta at 150 keV with typical 75% detection efficiency.
 - Gamma: detects gamma and x-rays down to 10 keV typical through the window, 40 keV minimum through the case.



M4 and M4EC Scales

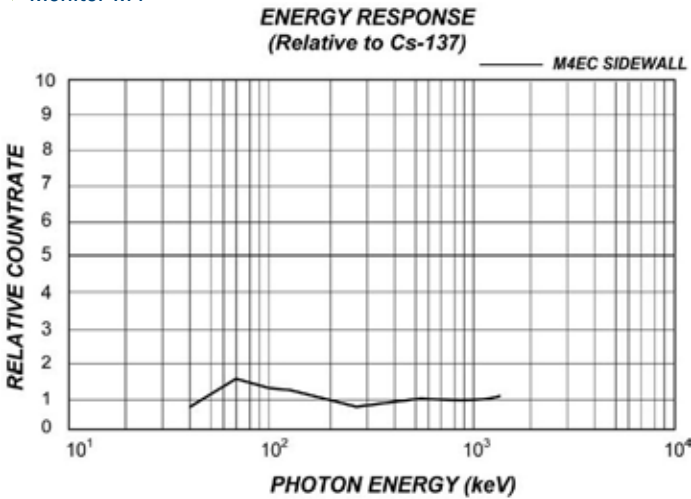
- ▶ Monitor M4EC
 - Detector: halogen-quenched GM tube, energy compensated sidewall 2 mm tin filter. Thin mica window 1.5–2.0 mg/cm² thick.
 - Alpha: detects alpha down to 2.5 MeV; typical detection efficiency at 3.6 MeV is greater than 80%.
 - Gamma: detects gamma and x-rays down to 10 keV typical through the window (non-compensated), 40 keV through the sidewall.



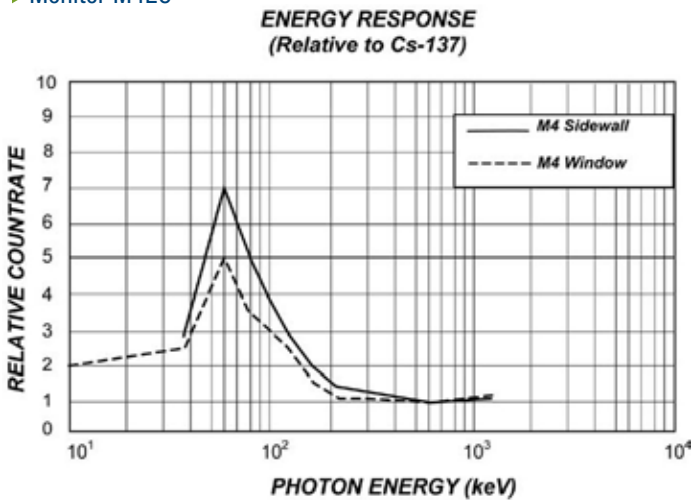
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Handheld Radiation Alert Detector

► Monitor M4



► Monitor M4EC



- Operating Range0–0.5, 0–5, 0–50 mR/hr
0–500, 0–5,000, 0–50,000 CPM or
0–5, 0–50, 0–500 μ Sv/hr (SI Scale Meter Option)
- Range SwitchX1, X10, X100, Battery Check
- AccuracyTypically \pm 15% of reading, Cs-137
- Audio IndicatorInternal beeper (can be turned off)
- Power9 V alkaline battery, ~ 2,000 hrs. at
normal background
- Temperature Range-20° to 55° C (-4° to 131° F)
- WeightM4: 200 g (7.1 oz)
M4EC: 224 g (7.9 oz)
- Outputs3.5 mm headphone jack with pulse out
- Size209 x 71 x 50 mm (8.2 x 2.8 x 1.9 in)
- IncludesCarrying case with belt clip
- Limited Warranty1 year limited warranty
- OptionsSI Meter Option, Observer Software, Mini-USB
Option with USB Observer Software

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