



RADIATION ALERT[®] Monitor 4 & 4EC

a β γ x



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

Detector

Monitor 4: Halogen-quenched uncompensated GM tube with thin mica window 1.5-2.0 mg/cm² thick.

Monitor 4EC: Halogen-quenched GM tube, energy compensated sidewall 2mm tin filter. Thin mica window 1.5-2.0 mg/cm² thick.

Operating Range

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)

Accuracy

Typically $\pm 15\%$ of reading (Cs¹³⁷)

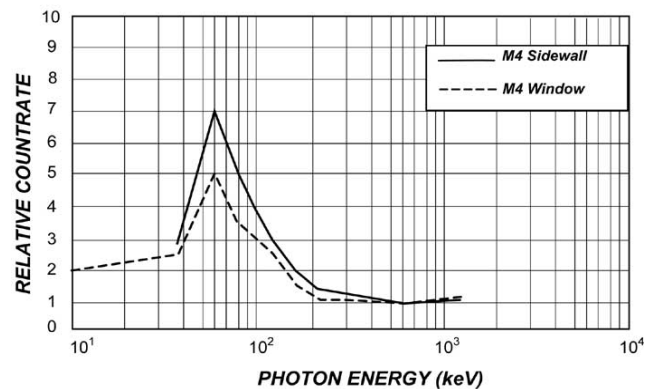
Energy Sensitivity

1000 CPM/mR/hr (Cs¹³⁷). Detects alpha down to 2.5 MeV; typical detection efficiency at 3.6 MeV is greater than 80%. Detects beta at 50 keV with typical 35% detection efficiency and beta at 150 keV with typical 75% detection efficiency. Detects gamma and x-rays down to 10 keV typical through the window, 40 keV minimum through the case.

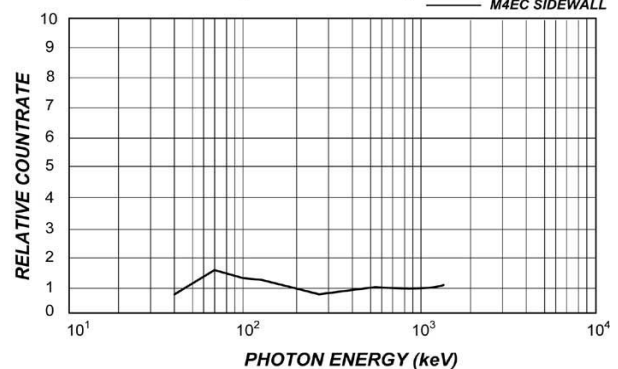


The end window of the M4 and M4EC

ENERGY RESPONSE
(Relative to Cs-137)



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(Relative to Cs-137)



S.E. INTERNATIONAL, INC.

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Monitor 4 & 4EC

4EC is the same as 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.

Display

Analog Meter holds full scale in fields as high as 100X maximum reading. CPM & mR/hr scale.
Optional SI Scale Meter Available
Audio Indicator
Internally mounted beeper

Power Requirements

9-volt alkaline approx. to 2,000 hrs at background

Temperature Range

-20° to 55°C (-4° to 131°F).

Weight

M4: 200 g (7.1 oz)

M4EC: 224 g (7.9 oz)

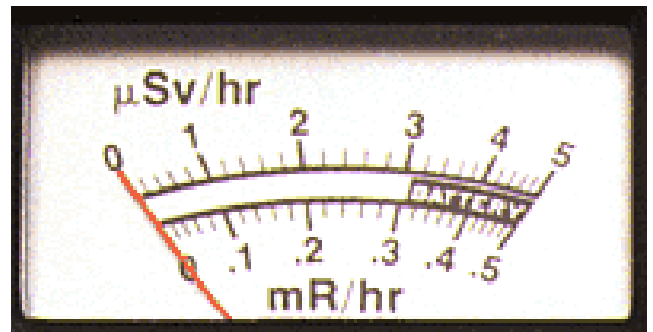
Outputs

Headphone 3.5mm jack to count to computer or datalogger. Size

209 x 71 x 50 mm (8.2 x 2.8 x 1.9 in.)



M4 with CPM & mR/hr meter scale



Optional SI Meter Scale: 0-500 µS/hr & 0-50 mR/hr



Includes

Carrying Case w/ Belt Clip

Options

SI Meter Option, Observer Software,
NIST Calibration

Limited Warranty

1 year limited warranty

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