



# Monitor 4 & 4EC

USB Observer Version

Same Monitor 4. New optional USB output. The M4 and M4EC are compact, 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).

## Detector

**Monitor 4:** Halogen-quenched uncompensated GM tube with thin mica window 1.5-2.0 mg/cm<sup>2</sup> thick.

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

## Display

Analog Meter holds full scale in fields as high as 100X max reading.

## Operating Range

0-50 mR/hr and 0-500, 0-5,000, 0-50,000 CPM or 0-500 μSv/hr

## Monitor 4 Energy Sensitivity

**M4:** Detects alpha down to 2.5 MeV; typical detection efficiency at 3.6 MeV > 80%. Detects beta at 50 keV with 35% efficiency. Detects beta at 150 keV with 75% efficiency. Detects gamma and x-rays down to 10 keV through the window, 40 keV minimum through the sidewall. Normal background is approximately 10-20 CPM.

**M4EC:** Same as Monitor 4 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.

## Gamma Sensitivity

1000 CPM/mR/hr

(referenced to Cs-137)

## Range Switch

X1, X10, X100, Battery Check.

## Accuracy

±15% of full scale (referenced to Cs-137)

## Audio

Internally mounted beeper (can be turned off for silent operation).

## Power Requirements

9-volt alkaline battery up to 2,000 hrs at normal background

## Temperature Range

-20° C to 55° C (-4° F to 131° F).

## Weight

M4: 223.9 grams (7.2 oz) without battery

M4EC: 245.7 grams (7.9 oz) without battery

## Size

210 x 70 x 48 mm

(8.25 x 2.75 x 1.875 in.)

## Includes

Carrying Case, Observer Software, & USB cable. SI Meter Option available upon request

## Warranty

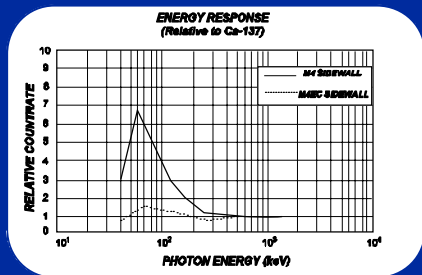
1 year limited warranty



Headphone Jack & Pulse output. USB Option also available

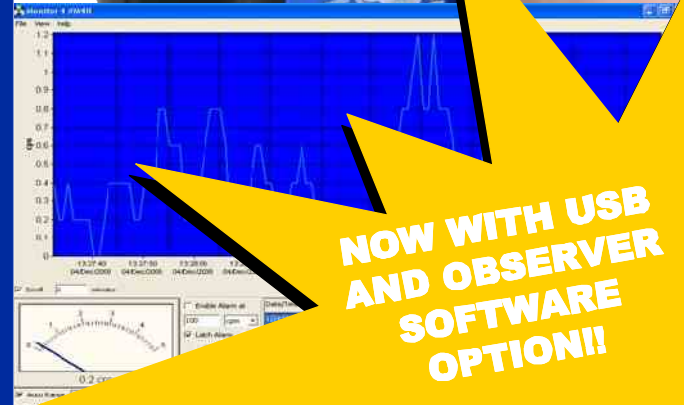


Monitor 4 end window for GM tube.



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**NOW WITH USB AND OBSERVER SOFTWARE OPTION!!**

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