

Monitor 4/4EC



The **Monitor 4** and the **Monitor 4EC** 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 that is 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/cm² thick.

Monitor 4EC: Halogen-quenched GM tube, energy compensated sidewall 2mm tin filter. Thin mica window 1.5-2.0 mg/cm² 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. NORM is approximately 10-20 CPM.

M4EC: is the 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

One 9-volt alkaline battery. Battery life is up to 2,000 hours at normal background radiation levels

Temperature Range

-20° C to 55° C (-4° F to 131° F).

Weight

M4: 178 grams (6.3 oz.) 4EC: 198.1 grams (7 oz.) without battery

Size

145 x 72 x 38 mm (5.7 x 2.8 x 1.5 in.)

Warranty

1 year limited warranty

Connectors

Headphone Jack, Pulse output, USB Option

Accessories

Carrying Case, Observer Software, USB Option, SI Meter Option

