

Analog Radiation Detector Comparison

Posted on April 26, 2018



A number of radiation industry professionals still prefer [analog radiation detectors](#) even today. Here at SEI, we ditched the lunch box design common in a number of analog meters for something a little smaller. The following radiation detector comparison will help you nail down the right analog Geiger counter for your needs.

Our [Monitor 4](#) is a “hot dog tube” based Geiger Counter. Of the three versions listed, this model had been in production the longest. What started as a small brown square case that established it as an industry standard, has now become a much more ergonomic design with all the same features customers have come to love.

Some customers need the [Monitor 4EC](#), which is the energy compensated alternative with the same operating range. The energy compensated GM tube gives a better linear response for gamma and x-rays (above 40 keV) while using the sidewall of the detector instead of the end window.

If you’re in need of a higher operating range, such as 1000 mR/hr, then the energy compensated [MC1K](#) is reporting for duty. Both EC (energy compensated) are ideal for applications requiring a linear response to gamma and X-rays. The rest of the specification comparisons are rounded out in the table below.

	Monitor 4	Monitor 4EC	MC1K
aßyx	Yes		(y x only)
Energy Compensated	No	Yes	No
mR/hr	0 to 50		0 to 1000
Counts Per Minute	0 to 50,000		n/a
µSv/hr	0 to 500 (Optional Meters Scale)		n/a
mSv/hr	n/a		.001 to 10