

GG1W Gamma GM Detector

Time-To-Count

Wide Range & Low Range Versions

The GG1W Intelligent Gamma Probe is an integrated real-time Gamma radiation-monitoring device that provides highly accurate indication of ambient Gamma radiation over a wide range. The GG1W uses a pair of halogen quenched Geiger Mueller tubes for sensitivity to ambient gamma radiation levels. The GM tubes are operated using a "Time-To-Count" method which removes the limitations associated with traditional 'constant bias' GM tube circuits.

- Detects gamma radiation from 80 keV to 2 MeV with a linearity of $\pm 20\%$.
- Dynamic range of 10^{-4} mSv/h to 10^5 mSv/hr
- Electrically connects via a multi-conductor shielded cable to an associated Apantec's RM1-series Display and Control unit.

The GG1W is housed in a rugged cylindrical stainless steel housing with a NEMA4 rating. When provided with an internal check source, the detector is designated as Model GG1WC.

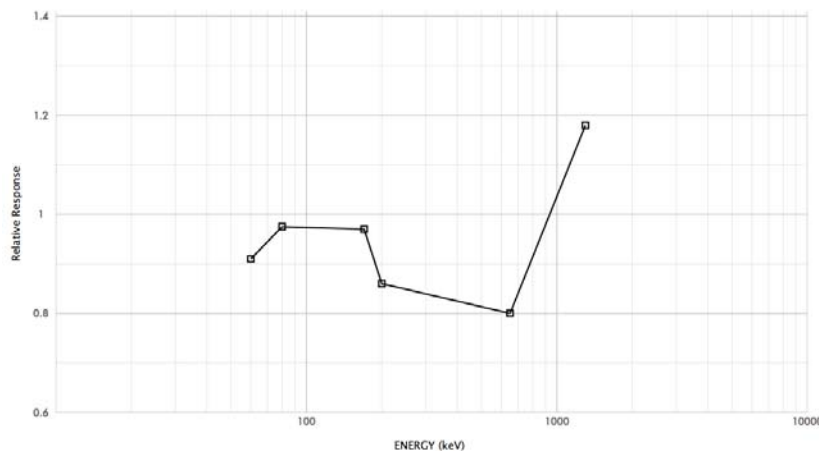
Note:

Apantec offers Models GG1W (wide range), GG1WC (Check Source version), and GG1WL (Low range version with one GM tube). All of these types can also have the Sieverts version SI Units of measurement (Sv/hr(H*10)).



SPECIFICATIONS:

Detector Type:	Geiger Mueller tube
Std. Range:	10^{-4} mSv/h to 10^5 mSv/hr (10 μ R/hr to 10,000 R/hr)
Energy Range:	80 keV to 2 MeV
Energy Response:	$\pm 20\%$ from 80 keV to 2 MeV, Reference 137Cs
Saturation:	Won't saturate in fields up to 10,000 R/hr
Accuracy:	$\pm 15\%$ over entire range
Linearity:	$\pm 5\%$
Response Time:	4 s
Environment:	-31°F to 140°F (-35°C to +60°C), 0-95% RH
Operating Voltage:	12 VDC supplied by RDM unit
Dimensions:	7 in. L x 2.5 in. dia.
Weight:	0.9 kg (2 lbs.) nominal, not including detector mount
Check Source:	Internal 90Sr, license exempt, remotely operated, spring return (GG1WC only)



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