

**proportional counter**

A gas-filled X-ray detector in which the electric potential is high enough for the gain to reach a value in the range from  $10^2$  to  $10^5$ . Each electron produced by the initial photo-ionization causes one avalanche. Since the number of avalanche events is proportional to the energy of the incident photons, the charge collected by the anode is proportional to the X-ray photon energy.

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