



IMAGES
SCIENTIFIC INSTRUMENTS

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August 2012

Steam Punk Geiger Counter



Build your own Steam Punk Geiger Counter.

DIY - Use Victorian science to build a functional Geiger counter

Soon to be published in upcoming issue of Make Magazine

Kirlian Photography Book Project closing in 4 Days

Last chance to fund this project [Click Here](#)

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**Alpha Particle Spark Detector
now available for purchase**



This detector uses a 8000 volt negatively-charged electrode and thin copper wires connected to ground strung approximately 0.1" above the electrode, to detect alpha particles.

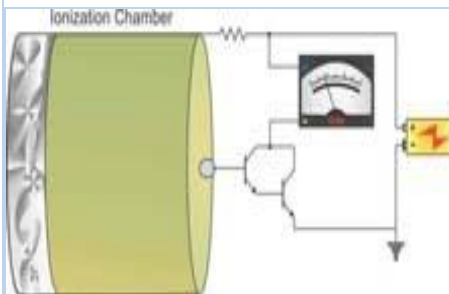
An alpha particle passing inbetween the wire and the electrode ionizes the air slightly that initiates an avalanche effect that we see as an electrical discharge between the wires and the electrode.

This detector is only sensitive to *alpha* (α) particles and will Not detect *beta* (β), x-ray or *gamma* (γ) radiation.

[Alpha Particle Spark Video](#)

[More Information](#)

Ionization Chamber Coming Soon



Ionization chambers may be used to measure ionizing radiation by measuring the amount of charge generated from the interaction of radioactive particles with molecules of a certain gases.

The simplest form of the chamber consists of a cylinder at ground and one charged positive center electrode. When radiation is introduced into the gas between these two electrodes it liberates electrons from the gas

molecules creating gas ions, and thus allowing charge to flow from center electrode (wire) to outer electrode cylinder.

The strength of the electrical field generated is directly porportional to how much radiation is present in the chamber and the amount of distance between the electrodes and the given volume of gas between them.

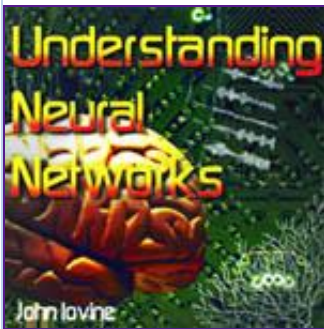
Playstation Servomotor Controller with Memory

The PS2 PlayStation Record-Playback Servo Motor Controller Interface is a small dc powered interface board that will allow real time control as well as record and playback up to 5 minutes of servo motion for four (4) standard 5 Vdc hobby (R/C type) servo motors. (Hitec/Futaba) [Not Included].

[More Information](#)



Understanding Neural Networks coming September 2012



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