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System theremino

A case for the Geiger LND7312

Mount the tube LND7312 in a plastic container

This sensor is heavy, delicate and difficult to handle.

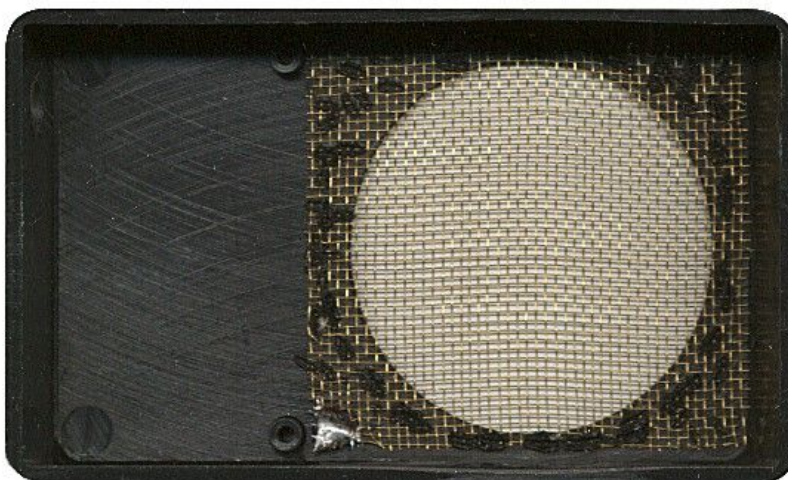


to

With a 45mm diameter hole in the plastic and a net of protection you get a practical and sturdy container.



The mesh of brass must be fixed over the entire circumference because otherwise it bends at the slightest pressure.



Using a bit self-built with a resistor 10 ohm 5 Watt variable power supply supplied with the laboratory about 12 volts the brass gauze was pressed into hot plastic and clung very well.

For an industrial construction it would take a cylinder of 50 mm (internal), often about one millimeter, with a crown of teeth on the end part and kept at a temperature of about 150 degrees with a heater NTC.

In this way the mesh, which otherwise is flexible and pliable, it becomes very resistant even with pressures of hundreds of grams.

It could also improve the mechanical strength using a wire gauze in stainless steel wire which would eliminate the elongation of the wires of brass with strong pressures.

In any case you must use a wire gauze with wires very small (large ratio between empty and full) so as to intercept a few rays and to maintain at least 95% of the sensitivity.

The sensor rests stably, the side walls keep it centered and, finally, with three drops of hot glue is obtained a very sturdy assembly.

A corner of the gauze was tinned brass for the contact of the negative pole.

The only contact between the mesh and the copper of the Geiger tube is not sufficient to ensure a reliable connection to which was added as a spring (not visible here), which presses on the copper pipe, in the empty triangle that is seen in the upper left.

