SPECTECH

GM Tube Pulse Inverter Model GPI



Operating Instructions

Spectrum Techniques Oak Ridge, Tenn. USA

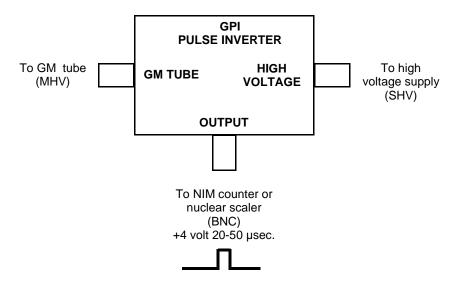
General Information

The GPI Pulse Inverter is designed to interface a Geiger Mueller detector to a nuclear counter requiring positive polarity TTL or NIM logic input. The Pulse Inverter amplifies the negative signal from the GM tube an inverts its polarity producing a positive output signal of 4 volts amplitude and 20 usec duration.

Power for the GPI is provided from the high voltage supply used to operate the GM tube. Current requirement is about 500 µA. so a high voltage supply with a capacity of at least 1 mA. is recommended. Geiger tubes normally operate in the range of +300 to +1000 volts depending on the specific tube, so the operating plateau should first be run to determine the correct operating voltage.

Connection

Connect the GPI as shown in the following diagram.



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