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In this technical era, advanced technology has made everything so easy that only with pressing one button helps you to accomplish task. When enter into the world of Generators, it usually strikes our mind that it must relates with generating electricity but some generator also works in testing labs to carry on number of experiments in which delay generator is one of them.

Delay generator is very popular electronic test equipment that supplies accurate delays for synching, triggering, delaying, gating events etc. Such generators are utilized in several experiments, processes and controls especially when time of an event is concerned whether it is single or multiple.

These days, almost all of the equipments are going to be digital just to provide you an uninterrupted services, same with the case of Delay generator, which are available on the digital technology. The most basic difference between digital delay generator and ordinary electronic timing is the synchronization of the outputs to one another and to the starting event.

The DDG are very similar to pulse generators in operation but these are having finer timing resolution and delays. These are typically used at logical level where a single input is used to trigger many others, independently to get outputs which combine to produce unlike pulses. Apart from logic level in some cases it also helps to offer higher voltages to meet the demands of electromagnetic interference surroundings.

Many manufacturers even produce the optical inputs/ outputs in DDG with the association of fiber optic connections. Generally delay generator runs on a 50 ohm transmission line with the line ended in its featured impedance to reduce the timing complexities.

There are following few applications of delay generator:

â€¢ A delay generator can be utilized to delay & gate high speed photo sensors in high accelerate projecting application programs.

â€¢ Most of the users make graphical user interface (GUI) to supply a single control to the full arrangement or experiment. Industry standards like USB, GPIB, RS232, Ethernet etc are available from kinds of producers.

â€¢ Experimental fluid dynamics applies digital delay generators in its investigations of fluid flow.

â€¢ In the field of PIV, particle image velocimetry covers various subsets which apply the digital delay generators as the prime element of its clocking where multiple optical lasers trigger to carry on the experiment.

Moreover multi-trigger delay generator version has also introduced in electronic market for controlling the programmable logic circuits.

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