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Pump Programming Triggers



What is a Trigger?

A trigger is something usually an electrical signal that is used to get a pump to change its pumping action.

Simplest example is the use of a foot switch on a manual production line. For example an ink cartridge re-filler. They pick up a print cartridge for filling, insert the filling probe into the cartridge and then press the foot switch (with their foot). The pump then begins to run a pumping program which fills the ink cartridge at a safe rate for a known volume. Every print cartridge is filled the same following

the foot switch trigger.

Sophisticated Triggering

The pumps on this website all support external signal triggering from ttl logic level signals.

The triggers can be the rising or falling of the signal input level. These triggers can be configured to jump to two different sections of a pump program – thus implementing two separate pumping actions based on the input signal applied. For example you could have two sections one for a slow flow and another for a fast flow – the trigger could switch between the flow rates.

Electrical triggers

Electrical triggers are passing into the pump via its ttl inputs and output port. The pump's software then provides the ability to further define what the trigger will be – a rising edge, a level and many others. Read about these triggers on the [TTL Inputs and Outputs Page](#).

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As the author of SyringePumpPro products I have been involved with laboratory pumps for about 10 years now. My career spans electronics, avionics, programming, teaching, research and development laboratory experience, and even television.

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