Information Sheet

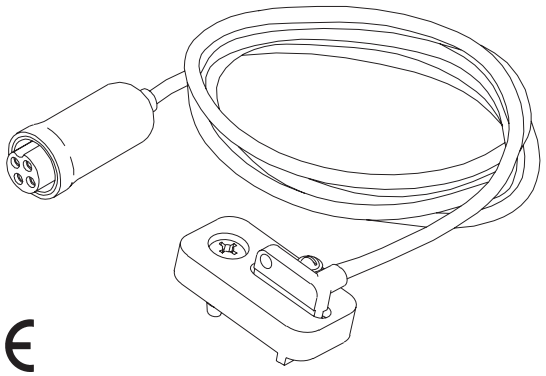
Pulse Transmitter
Part No. 41319

- *Trigger two or more LMI metering pumps for multiple chemical pumping or extra pumping capacity*

This Pulse Transmitter lets one (1) LMI AA7 pump control the stroking rate of up to ten (10) LMI AA7, A7, B7, or C7 pumps. As you change the stroking frequency of the master pump, either manually or automatically, each of the controlled pumps will keep exact pace with it.

You can pump up to ten (10) different chemicals at the same speed but at different stroke settings. You can change the total output of a large number of pumps while maintaining your preset pump-to-pump output ratios.

If you prefer, all pumps can be individually adjusted so that each produces the same output per stroke.



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The Pulse Transmitter also makes it possible to feed a larger quantity of the same chemical solution. Several pumps may be connected in cascade, and all their stroke frequencies be adjusted simultaneously by adjusting a single pump, either manually or automatically.

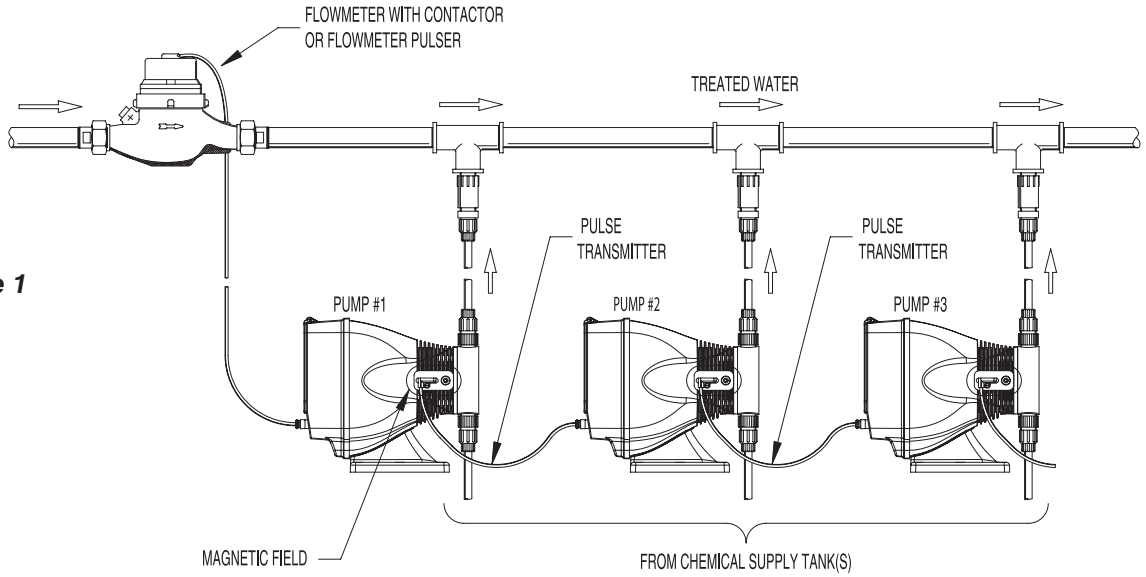

Figure 1

Figure 1 shows flow-proportional treatment by means of an LMI Flowmeter. Set Pump #1 on external mode. Each Flowmeter pulse signal triggers one pump stroke. The Pulse Transmitter senses the magnetic field change in the pump and triggers the next pump in the series. Each pump may feed a different chemical solution if required.

***NOTE:** Each consecutive pump must also be set on external mode.*

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Figure 2 illustrates a multiple pump feed system paced by an analog signal from an automatic control instrument (e.g. 4 - 20 mA pH transmitter). The analog signal is converted to contact closures by the LMI DPC-40 Controller and each closure produces one stroke of each pump. No relays or signals splitters are required.

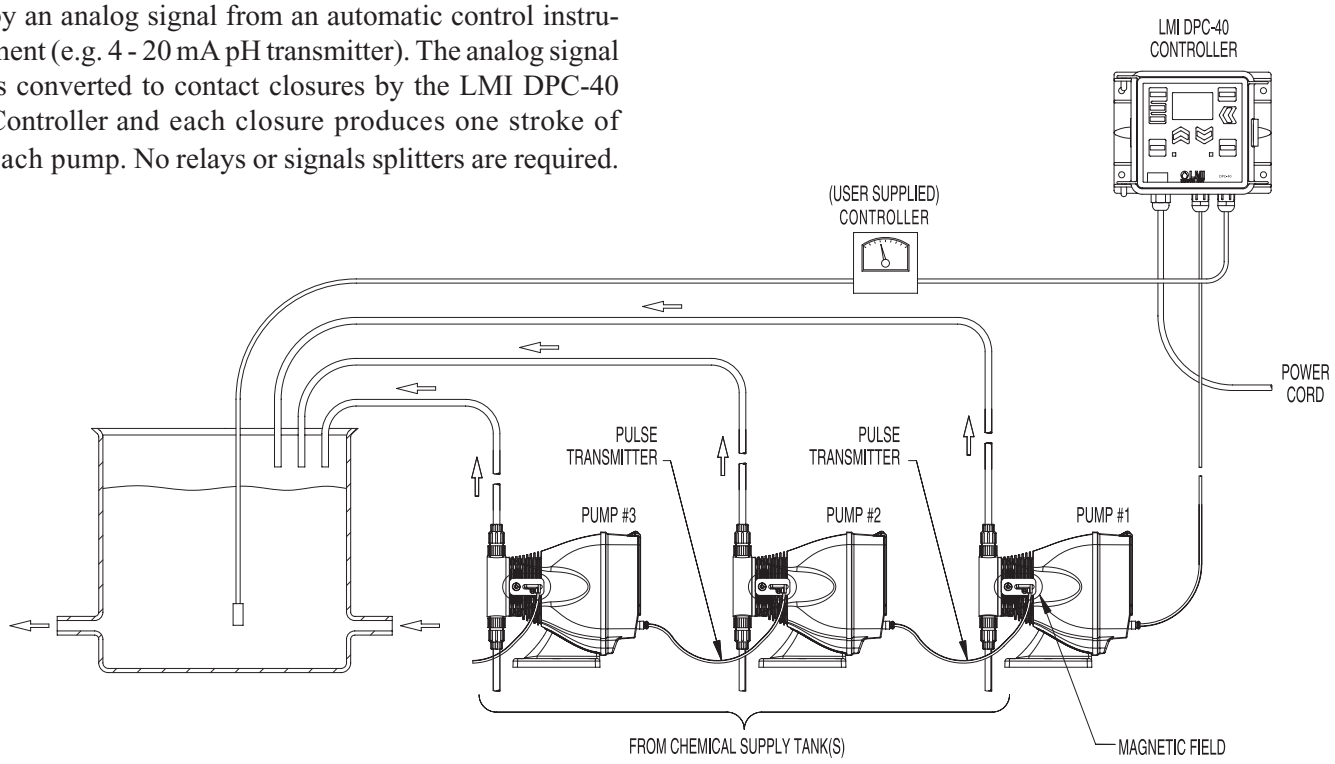

Figure 2

The reed switch portion of the Pulse Transmitter is mounted to a machined adapter, which is attached to the AA pump with the supplied screw (Figure 3). In order to maintain the necessary orientation of the reed switch, the adapter should be mounted so that the rib on its reverse side fits snugly between two of the ribs on the AA pump housing. The four-prong connector socket at the opposite end of the cable should be inserted into the external input jack of the pump which you desire to control.

NOTE: *The Pulse Transmitter can be used for an unlimited sequence of pumps. However, because of contact lag time, if more than ten pumps are cascaded, the first pump will be in its second discharge stroke before the last pump completes its first stroke.*

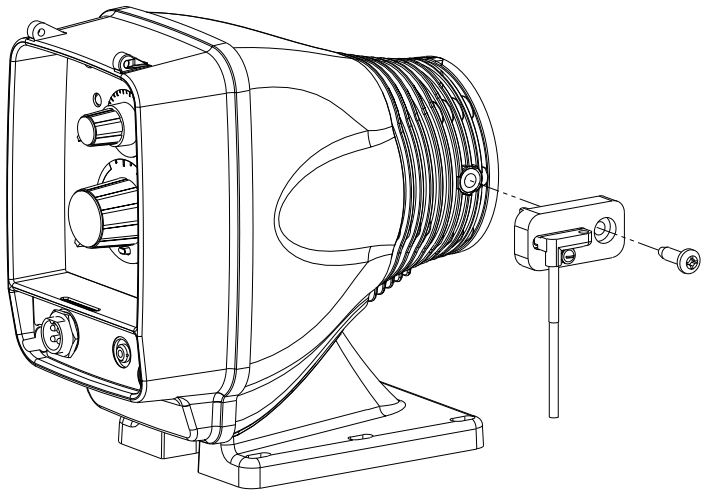

Figure 3

Cable	10 ft (3 m), 2 conductor 22 AWG. Wire
Max. Inductive Load	5 watts, 0.2 amps 115 VAC, or 0.1 amp, 230 VAC, or 0.2 amp, 28 VDC
Max. Resistive Load	8 watts, 0.5 amp, 115 V max. AC or DC
Switch Rating	0.1 amp