

THE PROBLEM

Continuous monitoring of water quality is often impractical and prohibitively expensive. Treatment frequently consists of the injection of chemicals at a regulated rate.

This works well in closed loop systems where treatment rates are consistent, or open loop systems where flow rates are consistent. However, with open loops with inconsistent flow rates this approach can be inefficient resulting in wasted chemicals and unpredictable residuals.

At times of low flow, a fixed injection rate can result in over treatment. This results in wasted chemicals. At times of peak flow, an insufficient amount of chemicals would be injected. This would not effectively treat the water.

THE SOLUTION

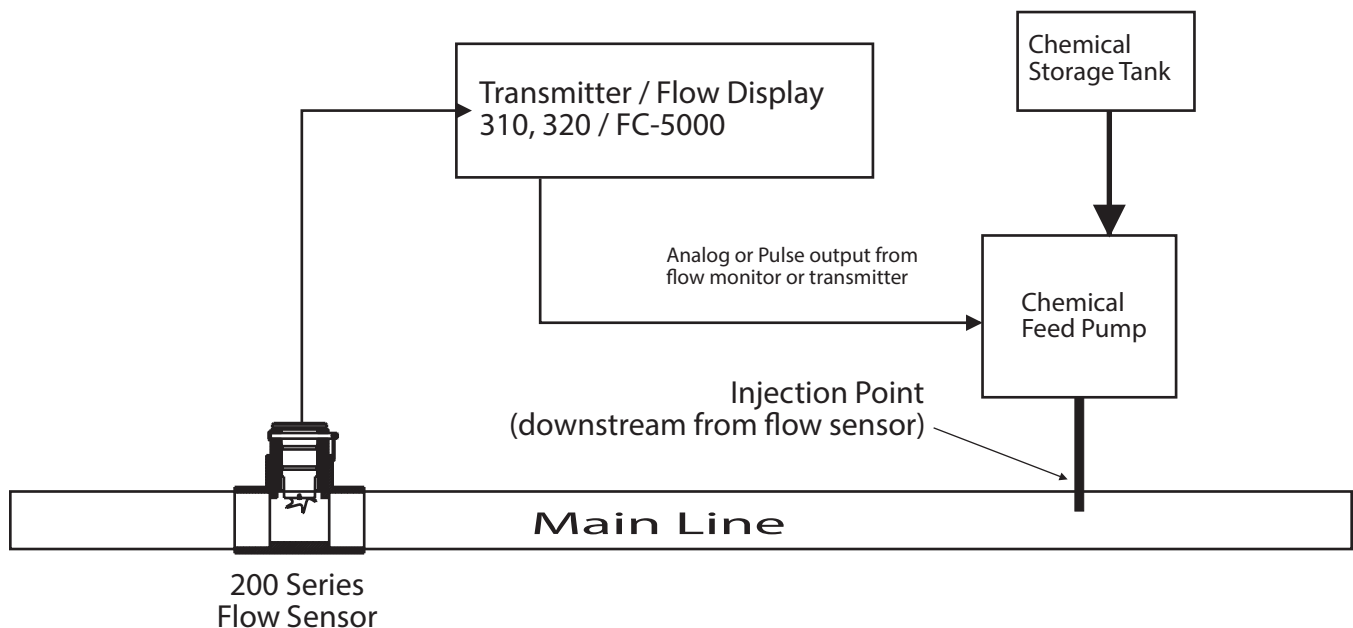
In open loop systems where the inlet water quality is relatively stable and flow rate is variable, a method of treatment that injects chemicals proportional to flow rate can be more accurate. This can also be more reliable and cost effective than one based on fixed interval injections.

A Badger Meter® flow metering system can provide the flow data and control required for injections based on flow rate. When a display of flow rate and/or total is desired, an FC-5000 Flow display provides an excellent choice. When no display is required our Models 310 or 320 analog or pulse transmitters provide very cost effective control. All the above products are compatible with any Badger Meter Flow Sensor. With this system, total flow can be monitored and displayed.

Contact Badger Meter for assistance in choosing the best hardware for each specific application.

EXAMPLES OF CONTROL

- Relay outputs configured by setpoints, hysteresis, set/release delays and latching
- Open collector, solid-state, or relay dry contact pulse per volume for stroke type positive displacement chemical feed pumps
- Analog output (0...5V DC, 0...10V DC, or 4...20 mA) for VFD driven injection systems



Control. Manage. Optimize.

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