

Chemical Injection Monitor

Applications:

- Chemical Injection Monitor
- Chemical Injection Controller
- Chemical Injection Confirmation
- Chemical Injection Flow Switch
- Chemical Injection Flow Monitor

Application Background:

It is often desirable to monitor and control the flow of a liquid or a gas being injected into a flow stream to provide assurance that the resulting mixture is of the desired result. In the chemical industry all matter of compounds are added to produce the final given product. In the water and waste industry additives are routinely added for regulatory compliance for safe water compliance. The oil & gas industry both in production and refining use chemical additives to achieve the desired performance result.

A flow meter with dual set points for control can be expensive when the accuracy of the flow control is of less concern than the budget. A dual set point flow switch may be more than adequate and ideal alternative.

Application Solution:

A flow switch with dual channels has the capability of setting two discrete flow set points for establishing the flow control function without the expense of a flowmeter. Normally the first channel would be set for “no flow” or “minimum flow” and the second channel for maximum acceptable flow of the liquid or gas. Exact flow rates must be established by a separate flowmeter or approximated by other local means or process experience. Once the dual channel switch is calibrated a flowmeter is no longer needed and can be removed for other applications.

With a single process connection into the flow pipe (MNPT or flange) a Dual Channel Versa-Switch® from Delta M Corporation can provide the flow control function for a liquid or gas application at less expense than a flowmeter.

For full details go to our website, www.deltamcorp.com to the products tab and look for Manuals. Find the dual channel Model VS5100 Versa-Switch® product manual. Section 4.4.3 will explain how dual set points can be established for your specific application,