

VortiBlend

Polymer Activation System

The **Chem-Flow PDC-1** is a polymer feed controller designed for the specific application of controlling percentage concentration of polymer flow to water flow.

- ❧ *Alphanumeric Display*
- ❧ *Water Flow Readout*
- ❧ *Concentration Set-Point*
- ❧ *4-20mA Output Signal*
- ❧ *Isolated Pulse Driver*
- ❧ *Three Control Relays*



PDC-1—Dosage Controller

One Touch Control

- Remote 4-20 mA Control
- Feed Rate Calibration*
- Concentration Calculator*
- Low Flow Alarm / Shutdown*
- 100 or 240 VAC, 50/60 Hertz





PDC-1—Dosage Controller

One Touch Control

4 Modes of Operation



Local Manual

This is a full manual mode of operation. The system is operated in the absence of a 4-20mA input signal and the operator adjusts the pumping rate at the face of the polymer pump.



Local Auto

The system is operated in the absence of an owner provided 4-20mA. The operator uses the PDC-1 controller to prescribe a desired solution concentration. The pump output is automatically regulated so as to deliver the target concentration relative to the measured water flow.



Remote Manual

Owner provided 4-20mA signal is used to proportionally control the neat polymer pump output independent of measured water flow. The displayed concentration is the ratio of neat polymer feed rate as determined by the owner 4-20mA to the measured water flow.



Remote Auto

Owner provided 4-20mA signal is used to prescribe the target solution concentration. The pump output is automatically regulated so as to deliver the target concentration (4-20mA) relative to the measured water flow.