

CHEMICAL MEASUREMENT / PROCESS CONTROL

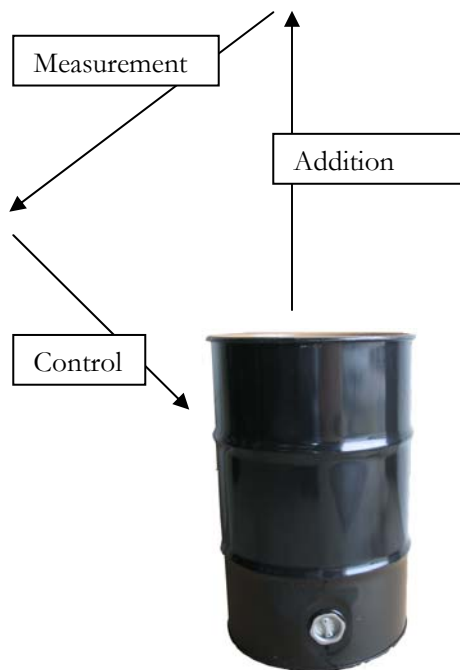
BACKGROUND

Chemical Measurement/Process Control is the combining of rapid on-line chemical measurements and automatic chemical addition. The fusion of these two concepts is now possible with the MINIChem and OMNICHem process analyzers. The

operation of these systems can be broken down into three categories: Measurement, Control, and Addition.

MEASUREMENT

Up to 8 different tanks can be measured with the OMNICHem process analyzer. These measurements replicate the titrations already being used by the line technicians. However; instead of 1 measurement/8 hours usually achieved by manual titrations the process analyzer can make up to 12 titrations/hour.



CONTROL

With the chemical concentrations of each tank known the analyzer compares these values against the desired values or “setpoints”. If any of the chemical concentrations are below the “setpoint” then the analyzer automatically calculates how much new chemical is needed to bring the tank back into specifications.

ADDITION

To add new chemical to the tank the process analyzer sends air pressure to a pneumatic chemical feed pump and operates that pump for the length of time required to dose the correct amount of chemical. With the periodic addition of new chemicals each tank is kept within a narrow concentration range; improving quality and reducing overall chemical usage.

ADVANTAGES

1. Lab Accuracy On-Line
2. Improved Quality
3. Tight Chemical Control
4. Elimination of “Rejects”
5. Minimizes Chemical Usage



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