

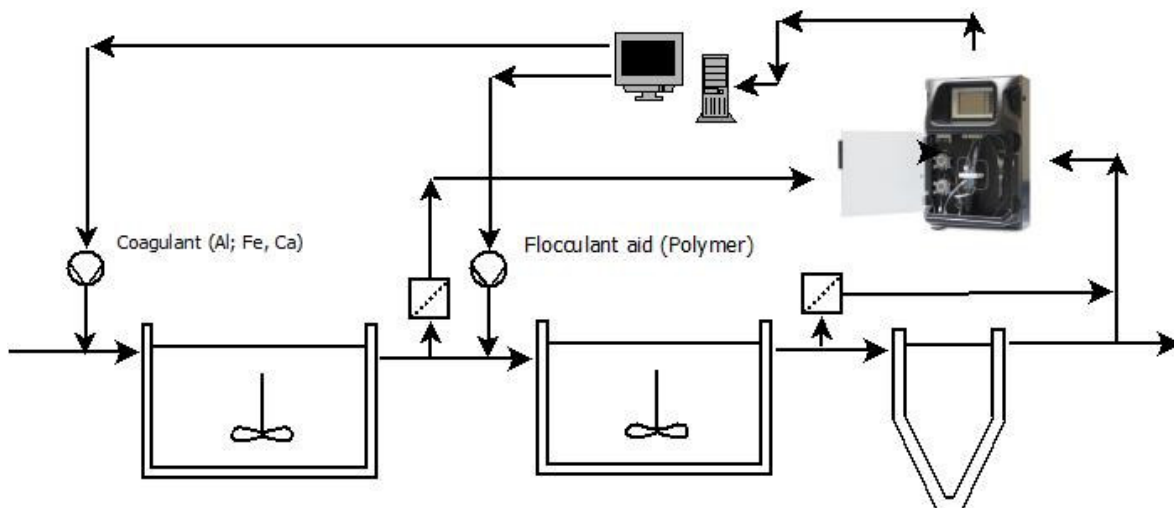
The EZ-Charge, Dosing Control in Water treatment

The EZ-Charge is an online analyzer, which allows controlling the dosing of coagulant and flocculants in water treatment for producing drinking water. At the moment mostly indirect methods are used, like turbidity or streaming potential. The colloidal titration with EZ-Charge is a direct method. This is possible through the colloidal titration system with a high sensible titration processor. Because the result is in the same unit like the coagulation strength of chemicals, the amount can be calculated exactly. This makes sure the exact amount of needed chemicals can be dosed for coagulation. The benefits are clear:

- **Reduced chemicals are saving costs**
- **Protection from salination**
- **Minimized concentration of heavy metals**
- **Less precipitation sludge**

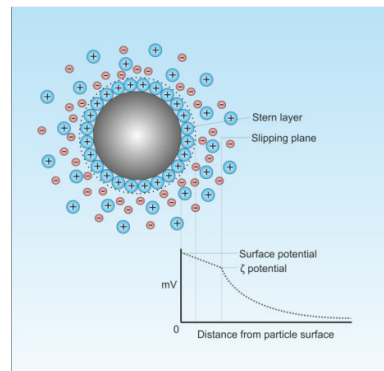


The EZ-Charge can be integrated easily in the process controlling system and makes possible to control the coagulation and/or flocculation. Points of sampling are the inlet or outlet of the coagulation tank or the outlet of flocculation tank. Process stability and a high quality of drinking water is a big advantage.



- All solids in aqueous systems are charged
- Removing suspended solids in three steps:

1. Coagulation (particles < 100 μm , by adding Al, Iron)
2. Flocculation (particles > 100 μm , by adding Polymer)
3. Aggregation (further growth and entrapment)



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