

Streaming Current Detector

Flumsys 10SC

The streaming current detector is used to continuously measure the electric charge on the tiny suspended particles and colloids in the liquid. The electric charge is measured by electronic signal processing. The measurement result is converted into A.C signal or streaming current (SC). The value of streaming current (SC) is proportional to the charge density. The charged state depends on the water after flocculation. The excess positive and negative charges can quickly react to changes in water characteristics (such as chromaticity and turbidity) by detecting the changes in the streaming current (SC) value, thereby making the operation. The personnel can adjust the metering of the flocculant accordingly.



The Flumsys 10SC streaming current can be equipped with a pretreatment system to ensure the long-term trouble-free operation of the instrument, with continuous measurement, automatic cleaning, PID control function can be connected to the existing dosing system and start automatic dosing control. The amount of flocculant will be automatically adjusted.

Measurement parameters

Streaming Current Detector (SCD)

Applications



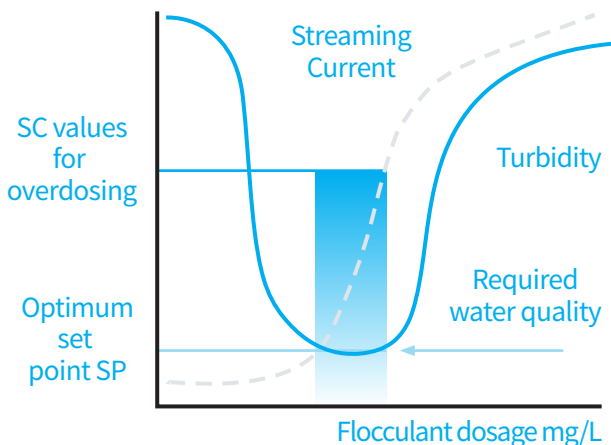
Flumsys 10SC provides water treatment plant operators with an effective tool to optimise and control the amount of flocculant and polymer used!

Advantage

- Automatic control of flocculant dosing
- Reduces overall flocculant costs
- Guaranteed effluent quality
- Low operation and maintenance costs

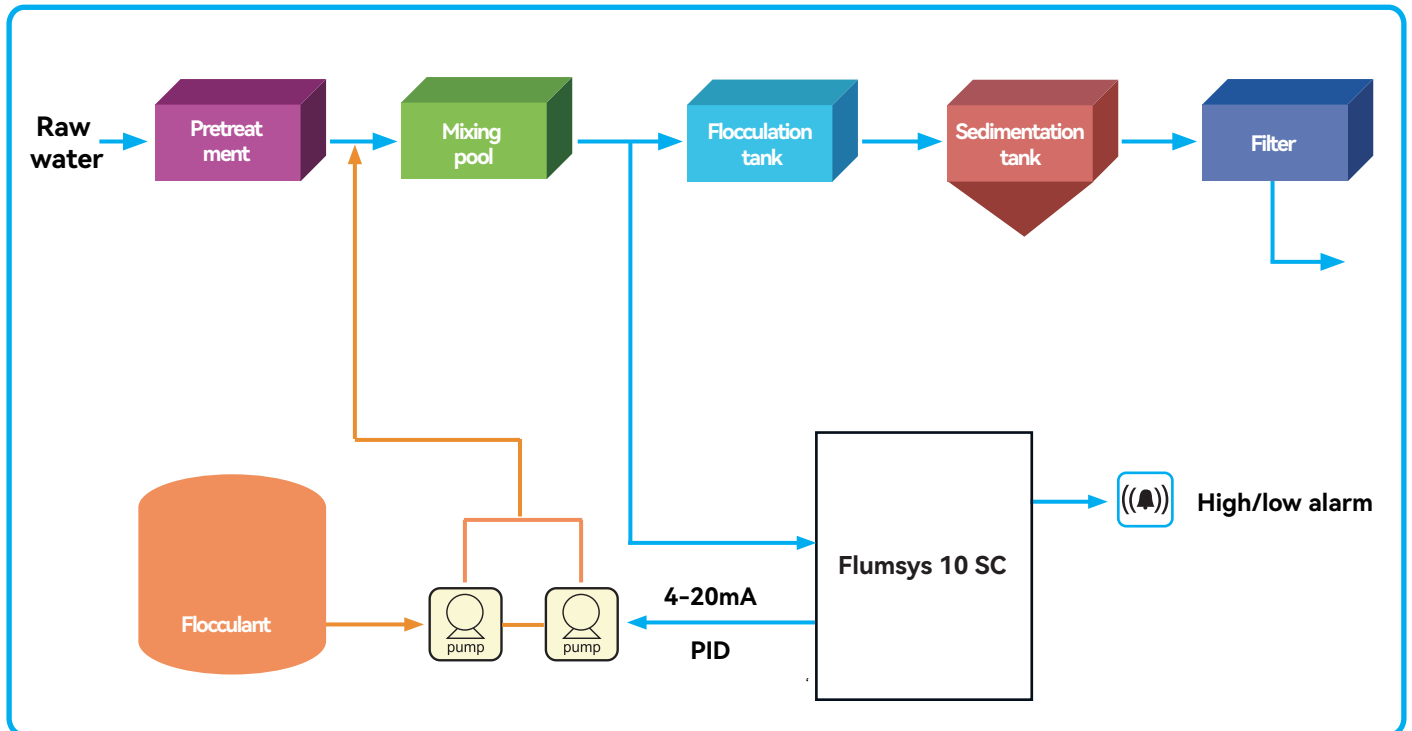
Features

- Simultaneous display of actual SC values and relative SC values
- Real-time SC trend graph
- Automatic cleaning function (optional cleaning solenoid valve)
- PID control function
- SC 4-20mA and PID 4-20mA outputs
- 2 high/low alarm outputs
- RS485 Modbus RTU communication
- Password protection against unauthorised operation
- Data logging function, supports U disk to export (Excel)
- Two modes of automatic/manual control
- Optional pre-treatment system for extended maintenance intervals



Water Quality Requirements

Conductivity: < 3000 μ S/cm
 pH: 4~11pH (pH < 7 after controlled flocculant application, SCD measurement is best)
 TSS: < 1000mg/L



Technical parameter

Measurement parameters: Streaming Current
 Measurement range: -1000~1000SC
 Accuracy: ±0.1%
 Repeatability: ±0.1%
 Response time: 1s
 Operating temperature: 0-50°C
 Power supply: 220VAC,50/60Hz
 Display: 7" Touch screen LCD display
 Analogue output: SC 4-20mA and PID 4-20mA output, Max. 500Ω
 Communication: RS485 Modbus RTU
 Alarm relay: High/low alarm contact output, 24VDC/1A
 Automatic cleaning: cleaning interval: 0-9999min
 cleaning time: 0-999s
 Data storage: Real-time data recording,
 support U disk export (Excel format)
 Sampling requirements: flocculant dosing point to sensor time about 3 ~ 5min
 Flow rate requirements: 1 ~ 4L/min
 Protection class: Controller: IP65, Sensor: IP54
 Dimensions: Controller: 300x350x200mm,
 Sensor: 250x350x150mm
 Weight: Controller: ca. 10Kg, Sensor: ca. 10Kg

Order Guide

Order No.	Description
33-5510-10	Flumsys 10SC Streaming Current Detector
33-5510-11	Flumsys 10SC cleaning solenoid valve
33-5510-12	Flumsys 10SC matching filter
50-5510-10	Flumsys 10SC PTFE kit

