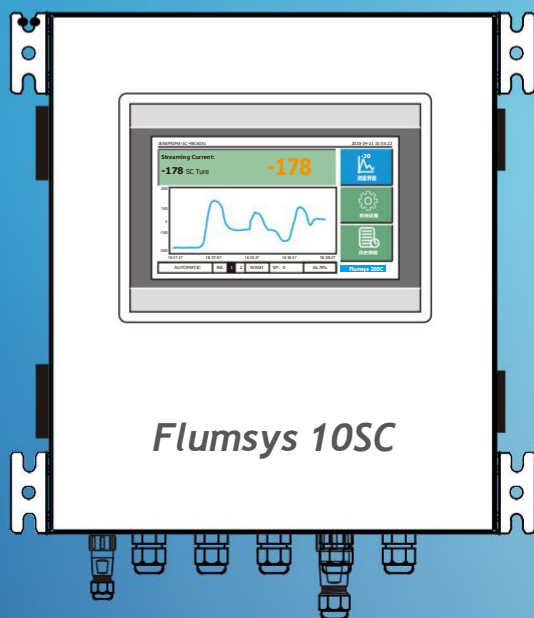


Flumsys 10SC

Streaming Current Detector

represent new advances in coagulant dose control



Flumsys 10SC Streaming Current Detector

Measuring principle

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 AC 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.

Flumsys 10SC streaming current Detector 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 according to the characteristics of the water.

Advantage

- Automatic control of the dosing of flocculant
- cut costs
- Maintain Water Quality
- Low operating and maintenance costs
- The turbidity range that can be processed: 100–5000NTU
- Durable, reliable and easy to control dosing system

Applications

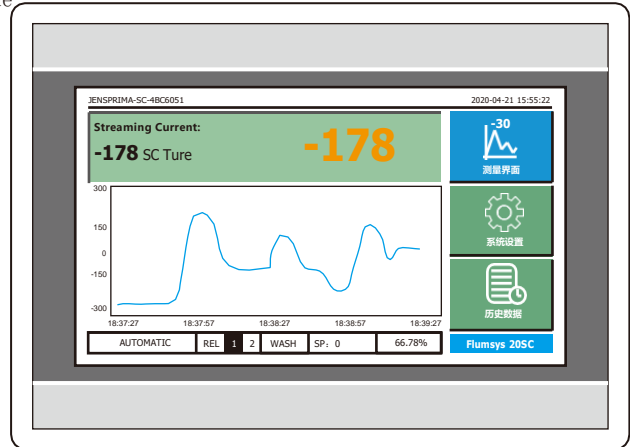
- Waterworks
- Sewage treatment plant
- Sludge dewatering
- Need to add flocculant process



Streaming Current Monitor

Features

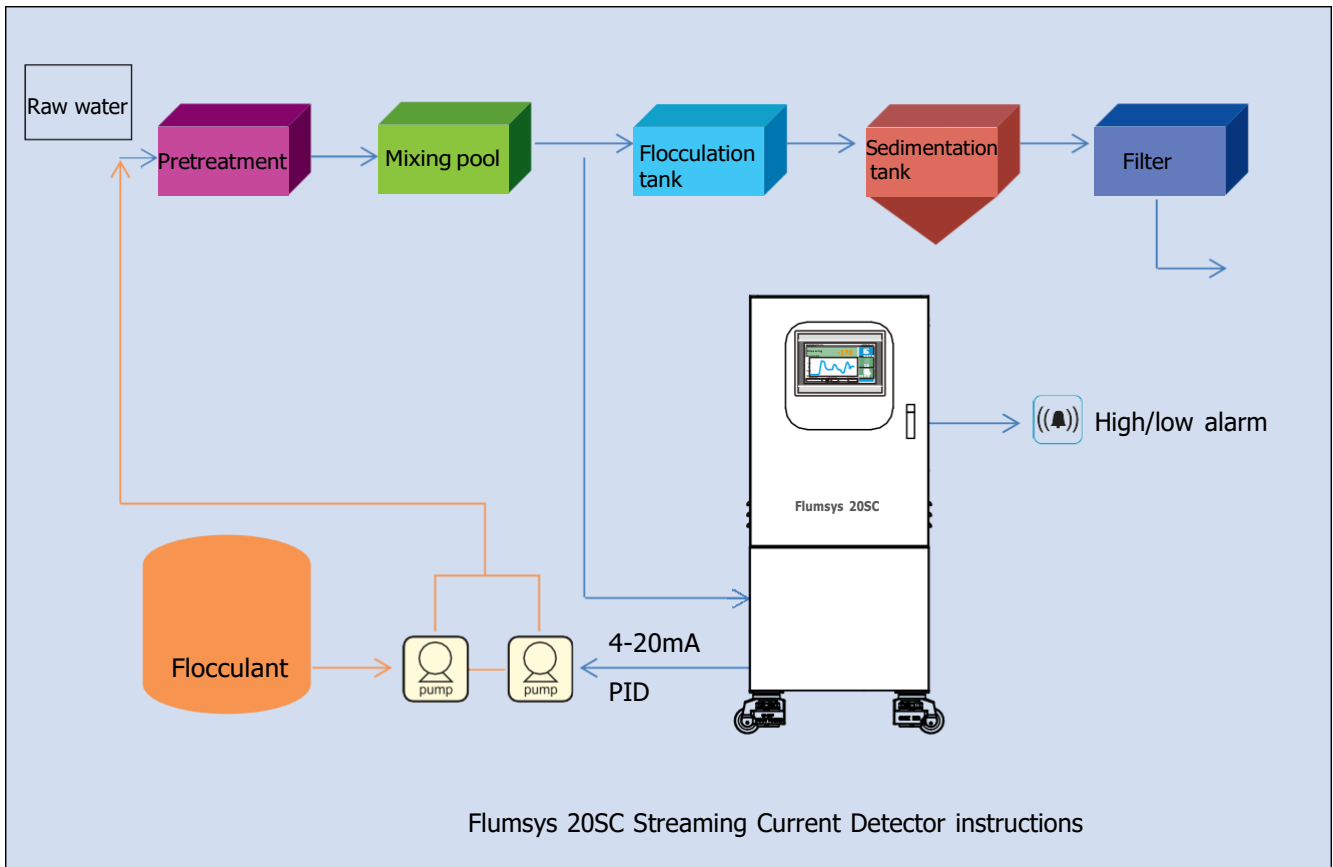
- Simultaneous display of actual SC value and relative SC value
- SC real-time trend chart
- Automatic cleaning function
- PID control function
- SC 4-20mA and PID 4-20mA output
- 2 high/low alarm output
- RS485 Modbus RTU communication
- Password protection to prevent unauthorized operation
- Data recording function, support U disk to export (Excel)
- Automatic control / manual control two modes
- Optional pretreatment system, greatly reducing maintenance



Touch display

Schematic diagram





Technical Parameters

| | |
|--------------------------|--|
| measuring range | -1000 to +1000SC |
| Accuracy | ±0.1% |
| Repeatability | ±0.1% |
| Response time | 1s |
| Operating temperature | 0-50°C |
| Liquid junction material | PTFE, POM, stainless steel |
| Protection grade | IP65 |
| Power supply | 220VAC, 50/60Hz |
| Output | 2 channels 4-20mA (measured value and PID), high/low relay |
| Communications | RS485 Modbus RTU |
| Data storage | Real-time data recording, support U disk export (Excel format) |
| Size | Controller: 300x350x200mm, sensor: 250x350x150mm |

Scope of supply

Flumsys 10SC

contain:

Pretreatment device

PID control function

Cleaning the solenoid valve

Quick connector

PTFE components x1

Order No.

55-0010-10