Streaming Current Detector

Flumsys 10TC-SP

The streaming current 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 flowing current (SC). The value of flowing 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 flowing current (SC) value, thereby making the operation. The personnel can adjust the metering of the flocculant accordingly.



The Flumsys TC-SP 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, PH measurement and 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.

Measurement parameters

Streaming Current/SCD, pH

Applications









Water quality Sludge purification dewatering

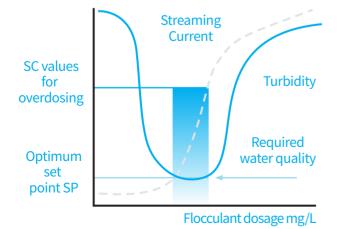
Wastewater Treatment

Need to add flocculant process

Flumsys TC-SP 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 value and relative SC value
- Simultaneous pH monitoring (optional) for real-time knowledge of flocculation effects
- Automatic cleaning function
- PID control function
- SC 4-20mA and PID 4-20mA output
- 2 high/low alarm output
- RS485 Modbus RTU communication
- 4.3" colour touch screen, easy to operate
- Password protection to prevent unauthorized operation
- Data recording function, support U disk to export (Excel)
- Automatic control / manual control two modes
- Split sensor design for easy installation on site
- Optional pretreatment system, greatly reducing maintenance

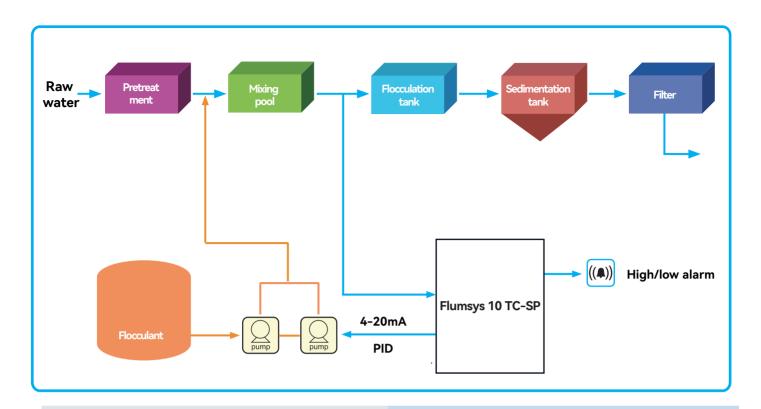
Water Quality Requirements

Conductivity: < 3000 µS/cm

pH: 4~11pH (pH < 7 after controlled flocculant application, SCD measurement

Optional pre-treatment system for extended maintenance intervals

JENSPRIMA



Technical parameters

Streaming Current/SCD, pH Measuring parameter:

-1000~1000SC Measurement range:

0-14pH

Accuracy: ±0.1%

±0.01pH ±0.1%

Repeatability: Response time: 1s 0-50°C Operating temperature:

Liquid connection material:PTFE、POM、SS316

ABS/PC Housing:

220VAC, 50/60Hz Power supply:

2 x 4-20mA (measured value and PID), Analogue output:

max. load 500Ω

Relay output: 2 high/low relays,

alarm value and hysteresis can be set cleaning interval: 0-9999min, Automatic deaning:

cleaning time: 0-999s

RS485 Modbus RTU Digital communication:

Data storage: Real time data recording,

U disk export support (Excel format)

Sampling requirements: flocculant dosing point to sensor

time about 3-5min

Flow rate requirement: 1~4L/min IP65 Protection class:

Controller: 200×190×90mm, Dimensions: Controller:

Sensor: 250×350×150mm

Weight: Controller: ca.1Kg, Sensor: ca.5Kg

Order Guide

Order No.	Description
33-2310-61	Flumsys 10TC-SP Streaming Current Detector
33-5510-11	Cleaning solenoid valves
33-5510-12	Filters
33-5510-10	PTFE kit
35-0125-10	innoSens 125T pH/TSensor

