

Product Overview

Based on the refractive index measurement principle, this analyzer is specifically designed for real-time, online monitoring of seawater chloride ion solution concentration. It is suitable for process control in industries such as chemical, pharmaceutical, and food processing.

The device features a built-in ultrasonic cleaning probe that automatically removes deposits on the optical window, ensuring long-term stable operation. It also offers a flow-through cell installation option and supports both immersion and bypass pipeline configurations. With flexible mounting options, it is compatible with various connections including threaded, flanged, and clamp interfaces, and can be customized to specific requirements.

The analyzer is equipped with temperature compensation, accommodating media temperatures from 0 to 100°C. It offers a pressure rating of up to 1 MPa and demonstrates excellent environmental adaptability. Output signals include standard 4-20mA analog and RS485 digital interfaces, with other protocols customizable for easy integration into control systems. The measurement section has an IP67 protection rating, making it suitable for humid or mildly dusty environments.

Featuring a compact structure and fast response, the analyzer enables continuous concentration monitoring. It effectively replaces manual sampling and laboratory testing, enhancing the timeliness and reliability of process control.

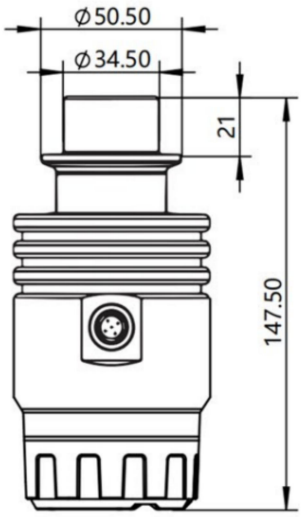
Features

1. Continuous online monitoring of seawater chloride ion concentration based on refractive index, eliminating manual sampling and lab testing.
2. Standard ultrasonic cleaning probe automatically removes optical window deposits, effectively maintaining long-term measurement stability.
3. Flow-through cell installation compatible with threaded, flanged, and clamp connections for easy integration into various pipelines.
4. Analog current and digital communication outputs, with customizable protocols to adapt to various control systems.
5. Temperature compensation automatically corrects temperature-induced reading fluctuations, ensuring reliable measurement results.

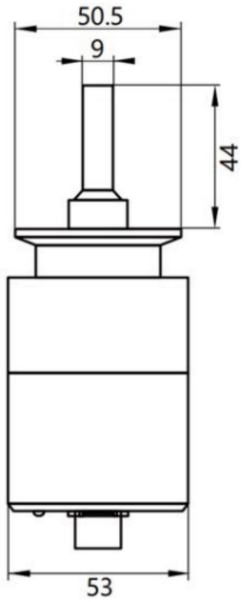
Technical Specifications

Measurement Range	Seawater Chloride Ion: -1.0~37.0%, -1.0~57.0%
	Refractive Index: 1.33050 - 1.35350
	Temperature: 0°C~100°C (Customizable up to 150°C)
Measurement Accuracy	Brix: ±0.20%
	Refractive Index: ±0.00030
	Temperature: ±0.5°C
Resolution	Brix: 0.1%
	Refractive Index: 0.0001
	Temperature: 0.1°C
Output	Analog Output: 4~20mA corresponding to Brix concentration -1.0 ~ 57.0% (Customizable)
	Digital Output: RS485
	Other output methods customizable
Input	DC 24V ±10%, Current <100mA
Measurement Time	Default: 1 measurement per second
Ambient Temperature	0.0~60.0°C
Sample Volume	Immersion measurement
Pressure Resistance	1MPa
Protection Rating	Measurement section: IP67
Installation Method	Threaded, flanged, clamp, etc., customizable

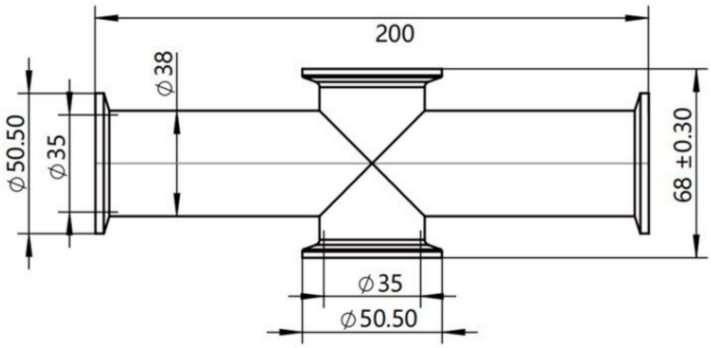
Product Dimensions



Online Liquid Optical Analyzer

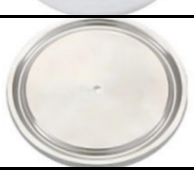


Ultrasonic Cleaning Probe



Flow-through Cell

Product Accessories

Flow-through Cell x 1		Weld-on Quick Connector *2	
Gasket x 4		Clamp *4	
Plug x 1		Lens Protective Cover *1	

Customizable split-type display

Recommended External Loop Installation



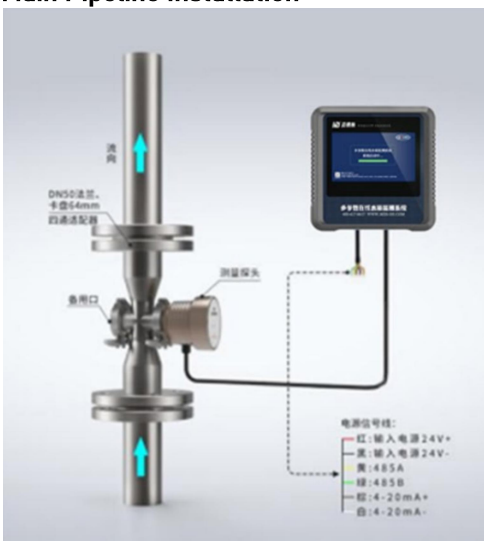
Side-Wall Direct Insertion



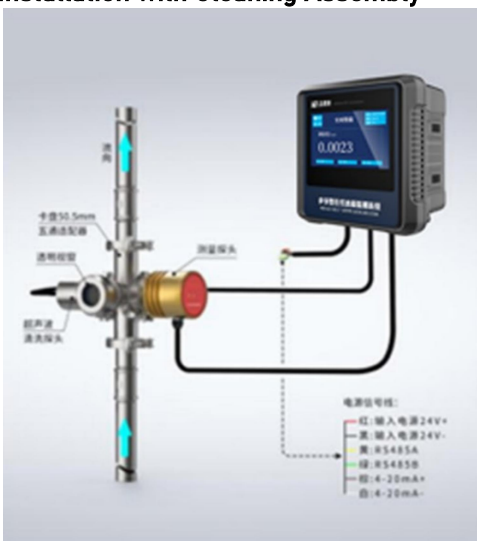
Top Direct Insertion



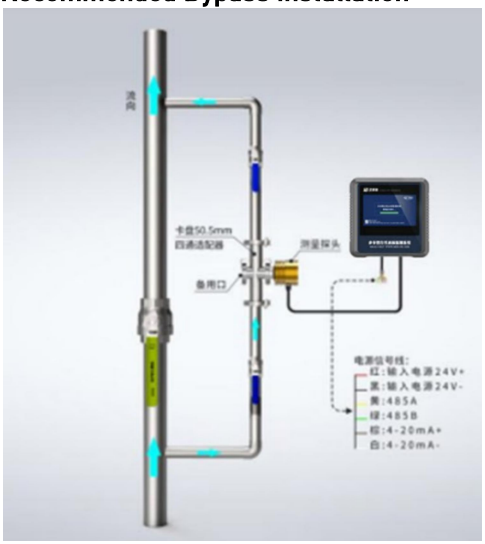
Main Pipeline Installation



Installation with Cleaning Assembly



Recommended Bypass Installation



Product parts



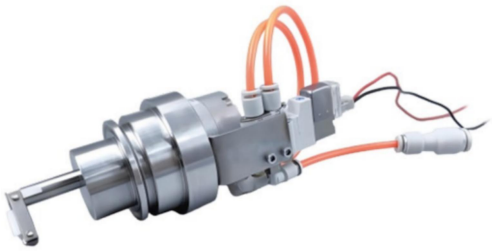
Ultrasonic Cleaning Probe



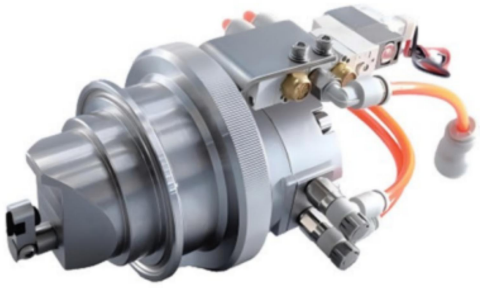
Ultrasonic Cleaning Probe



Ultrasonic Cleaning Probe



Automatic Brush Cleaning Device



Automatic Brush Cleaning Device



Automatic Brush Cleaning Device



High-pressure water/air cleaning unit

Showcase of Engineering Application Examples

