[Product Description]

- IoT SC analyzer with RS-485 and Wi-Fi web interface, and it can monitor by remote and in-situ with mobile phone which is without meter and app.
- Automatic cleaning function (optional):Including Micro air pump, cleaning scheduling(adjustable), keeping the last reading(during auto cleaning), and stabilization time(adjustable), that is able to extend maintenance period easily.
- Smart calibration function: Switching protective cover to standard solution bottle, and it calibrates with phone webpages.
- Smart AI function: calibration/auto-cleaning notification, self-judgment of stain and electrode degree of aging..etc.
- IP68 integrated design: The SC sensor can put into the application environment such as river/reservoir/tap water/ sewage/ seawater.. etc. Accurate and durable SC value can be provided to any meter or software in the world.

[Features]

- Integrated design, and built-in IoT transmission and sensor.
- IP68 submerged type and corrosion resistant material which can put into water without protective sleeve.
- It can be operated by delivery of current, and all functions are built-in.
- Ultra-low power consumption, it is suitable for large-scale deployment of green energy IoTs.
- The high-strength isolated cable can be put to use directly, and the signal is stable.
- The SC sensor is equipped with temperature compensation and measurement (in accordance with NIEA W218.51C).
- The power and IoT communication are equipped with surge protection.
- With dual digital communication of RS-485 and Wi-Fi.
- Standard Modbus RTU can connect to the global IoT.
- Wisdom design, storing parameter calibration, it can be installed directly on site after calibration.
- Operating with mobile web pages, it is convenient to on-site operation.
- Switching protective cover to standard solution bottle on site, it is convenient for calibration.
- With 3-point calibration, and the calibration point can be set.
- During calibration and auto-cleaning, keep the last reading value to avoid misoperation, and it read the state at the same time (calibrating/auto-cleaning/stabilizing/under maintenance).
- The latest thrice calibration records (date/slope/ calibration point) can be inquired.

[Applications] : Sewage, Seawater, Subterranean water, Aquaculture, River and lake detecting system.

[Optional code]   SC485 - | Code 1 | - | Code 2 |

Code 1	Function	Code 2	Line /Air ductlength
N	No auto-cleaning	N	3M
A	Auto-cleaning (Including standard air pump, 5m air pipe, nozzle)	10	10M
A24	Auto-cleaning((Including 24VDC air pump, 5m air pipe, nozzle)		

[Calibration bottle code]

Name of product	Code
Calibration bottle	Bottle

[Technical Specifications]

- RS-485 Modbus RTU. The mobile phone operates with web page(no app).
- Data resolution:16 bit(0.001%F.S).
- Surge protection:8000VDC.
- Protection: polarity、overload、short circuit.
- Measurement principle: Graphite electrodes measures impedance to calculate salinity.
- Installation method: submerged ·three way· intubation.

[SC Specification]

SC Specification		Temperature Specification	
Measuring range	0~100ppt, PSU,g/k Slope reading70~130%	Temperature principle	NTC30K
		Measuring range	-10~120°C(ATC)
		Accuracy	±0.2°C
Accuracy	±2% reading	Resolution	0.1°C
Resolution	0.1 ppt	Reproducibility	0.1°C
Electrode withstand voltage	Max. 100 Psig	Other Specification	
Operating temperature	0~70°C	Link above	3/4" NPT
		Link below	M42
Response time	T90 1 second	Housing Material	PP, acid and alkali resistance/food grade/ zero dissolution
		Electrode material	Graphite
Communication	RS-485Modbus RTU Web Browser direct reading (192.168.1.80)	Dimension	ø45*L214mm
		Weight	≤340kg
		Power	Auto-cleaning:12VDC or 24VDC(optional) Non auto-cleaning:9~36VDC
		Power consumption	Auto-cleaning:1.6w Non auto-cleaning:0.8w
Safety certification	CE,FCC	Ingress Protection Rating	IP68

[Dimension]

ø45mm

ø45mm

70.25mm

Calibration bottle