[Product Description]

- IoT EC 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 EC sensor can put into the application environment such as river/reservoir/tap water/ sewage/ seawater.. etc. Accurate and durable EC 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 EC 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.
- Simultaneous display: EC/TDS/Temp value.

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

[Optional Code]　EC485 - [Code1] - [Code2] - [Code3]

Code 1	Function	Code 2	Line/ air duct length	Code 3	Measuring range
N	No auto-cleaning	N	3M	L	0~20.00 mS/cm
		C	3 meters + quick connector		
A	Auto-cleaning (Including standard 12VDC air pump, nozzle)	Value	Line length	H	0~200.00 mS/cm
A24	Auto-cleaning (Including 24VDC air pump, nozzle)	Value C	Line length+quick connector		

[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：In accordance with EPA declaration method NIEA W204.51C,Graphite electrodes measure impedance to calculate conductivity.

- Installation method: submerged · three way · intubation.

[EC Specification]

EC Specification		TDS	Temperature Specification	
Measuring range	L : 0~20mS / cm H : 0~200mS / cm Slope:70~130%	L : 12800mg/L H : 128000mg/L	Temperature principle	NTC30K
			Measuring range	-10~120°C(ATC)
			Accuracy	±0.2°C
Accuracy	±1% F. S	±1% F. S	Resolution	0.1°C
Resolution	0.01 ms redundancy±1% reading	±0.1 mg/L	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 or24VDC(optional) Non auto-cleaning:9~36VDC
Safety certification	CE、FCC		Power consumption	Auto-cleaning:1.6w Non auto-cleaning:0.8w
			Ingress Protection Rating	IP68

[Dimension]:mm

Calibration bottle